

911 SPRING STREET OFFICE BUILDING REMODELING

FOR

LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

BUILDING DATA

APPLICABLE CONSTRUCTION (BUILDING) CODES
2009 INTERNATIONAL EXISTING BUILDING CODE
2009 INTERNATIONAL BUILDING CODE

EXISTING CONSTRUCTION TYPE
TYPE VB CONSTRUCTION - COMBUSTIBLE/UNPROTECTED

USE AND OCCUPANCY CLASSIFICATION
EXISTING GROUP B OFFICE - PROPOSED TO REMAIN THE SAME

REQUIRED FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS (TABLE 601)
STRUCTURAL FRAME: 0 HOURS
BEARING WALLS (EXT): 0 HOURS
BEARING WALLS (INT): 0 HOURS
NON-BEARING WALLS AND PARTITIONS (EXT): 0 HOURS
NON-BEARING WALLS AND PARTITIONS (INT): 0 HOURS
FLOOR CONSTRUCTION: 0 HOURS
ROOF CONSTRUCTION: 0 HOURS

FIRE SUPPRESSION SYSTEM: NONE

OCCUPANT LOAD AND EGRESS WIDTH
FIRST FLOOR = 52
SECOND FLOOR = 53
COURT ROOM = 49 (posted maximum occupancy)
THIRD FLOOR = 53

MINIMUM NUMBER OF EXITS
FIRST FLOOR - 2 REQUIRED / 2 PROVIDED
SECOND FLOOR - 2 REQUIRED / 2 PROVIDED
THIRD FLOOR - 2 REQUIRED / 2 PROVIDED

NOTE: COMMON PATH OF TRAVEL DOES NOT EXCEED 75 FEET

WORK AREA CALCULATIONS
FIRST FLOOR - 2,475 sf LEVEL 2 ALTERATION
SECOND FLOOR - 4,675 sf LEVEL 2 ALTERATION
THIRD FLOOR - 0 sf LEVEL 2 ALTERATION
LEVEL 2 ALTERATION < 50% OF TOTAL BUILDING AREA

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BID ALTERANTES

DEDUCTIVE ALTERNATE A1: DELETE ACOUSTICAL IMPROVEMENTS IN PROSECUTOR OFFICE 124, CONFERENCE 125, AND PROSECUTOR OFFICE 126 FROM THE SCOPE OF WORK. DEMOLITION WORK DELETED UNDER THIS ALTERNATE INCLUDES D1 - REMOVAL EXISTING WALL BASE, D2 - REMOVAL OF EXISTING GYPSUM BOARD, D4 - REMOVAL OF EXISTING CEILING, AND D6 - REMOVAL OF EXISTING CARPETING. NEW WORK DELETED UNDER THIS ALTERNATE INCLUDES A1 - INSTALLATION OF ACOUSTICAL INSULATION, RESILIENT CHANNELS, AND GYPSUM BOARD; PAINTING OF NEW AND EXISTING WALL SURFACES EXCEPT AS NOTED BELOW; INSTALLATION OF NEW CEILING GRID AND SALVAGED CEILING TILE; A41 - INSTALLATION OF ACOUSTICAL INSULATION ON ACOUSTICAL CEILING; AND INSTALLATION OF NEW FLOORING AND WALL BASE. NOTE THAT DEMOLITION AND RECONSTRUCTION WORK (INCLUDING PATCHING AND PAINTING) IN PROSECUTOR OFFICE 126 ASSOCIATED WITH RECONFIGURATION OF PASSAGE 122 AND INSTALLATION OF TRANSACTION OFFICE 126 IS NOT TO BE INCLUDED IN THIS DEDUCTIVE ALTERNATE.

DEDUCTIVE ALTERNATE A2: DELETE REPLACEMENT OF EXISTING INTERIOR FIRST FLOOR DOORS, FRAMES AND HARDWARE FOR OPENINGS 100.1, 124.1, 125.1, AND 126.1 FROM THE SCOPE OF WORK. DEMOLITION WORK DELETED UNDER THIS ALTERNATE INCLUDES D3 - REMOVE EXISTING DOOR, FRAME, HARDWARE AND ACCESSORIES. NEW WORK DELETED UNDER THIS ALTERNATE INCLUDES NEW DOOR FRAME, DOOR, GLAZING, AND DOOR HARDWARE.

DEDUCTIVE ALTERNATE A3: DELETE REPLACEMENT OF EXISTING INTERIOR SECOND FLOOR DOORS, FRAMES AND HARDWARE FOR OPENINGS 200.1, 202.1, 219.1, 220.1, 221.1, AND 224.1 FROM THE SCOPE OF WORK. DEMOLITION WORK DELETED UNDER THIS ALTERNATE INCLUDES D3 - REMOVE EXISTING DOOR, FRAME, HARDWARE AND ACCESSORIES. NEW WORK DELETED UNDER THIS ALTERNATE INCLUDES NEW DOOR FRAME, DOOR, GLAZING, AND DOOR HARDWARE.

DEDUCTIVE ALTERNATE A4: DELETE REPLACEMENT OF EXISTING EXTERIOR DOORS, FRAMES AND HARDWARE FOR OPENINGS 113.1, 118.2, 122.2, 200.1, AND 212.1 FROM THE SCOPE OF WORK. DEMOLITION WORK DELETED UNDER THIS ALTERNATE INCLUDES D3 - REMOVE EXISTING DOOR, FRAME, HARDWARE AND ACCESSORIES. NEW WORK DELETED UNDER THIS ALTERNATE INCLUDES NEW DOOR FRAME, DOOR, AND GLAZING. ADJUST EXISTING HARDWARE AS NEEDED TO OPERATE AS INDICATED IN HARDWARE SET 26.

DEDUCTIVE ALTERNATE A5: DELETE REPLACEMENT OF EXISTING DOOR HARDWARE FROM EXISTING DOORS 109.1, 110.1, 111.1, 114.1, 115.1, 116.1, 117.1, 118.1, 120.1, 121.1, 123.1, 127.1, 128.1, 129.1, AND 130.1.

DEDUCTIVE ALTERNATE A6: DELETE ACCESS CONTROL SYSTEM FROM DOORS 102.1, 113.1, 122.1, 204.1, 212.1, 214.2 AND 215.1. NOTE THAT DOOR BUZZER, POWER SUPPLY, AND ELECTRIC STRIKE TO REMAIN WHERE SPECIFIED.

DEDUCTIVE ALTERNATE M1: DELETE NEW DUCTLESS SPLIT HEAT PUMP SYSTEM CU-A/FC-A1/FC-A2 FROM THE SCOPE OF WORK INCLUDING ALL ASSOCIATED MECHANICAL PLUMBING AND ELECTRICAL WORK.

DEDUCTIVE ALTERNATE E1: DELETE NEW FIRE ALARM SYSTEM FROM THE SCOPE OF WORK.

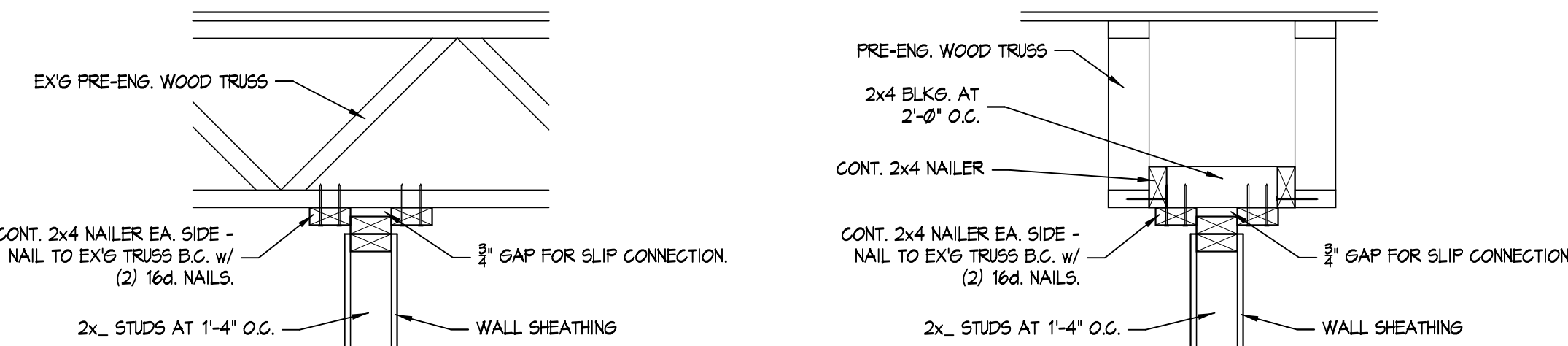
DEDUCTIVE ALTERNATE E2: DELETE NEW GENERATOR AND AUTOMATIC TRANSFER SWITCH FROM THE SCOPE OF WORK.

KEYED CONSTRUCTION NOTES

- (A1) INSTALL ACOUSTICAL INSULATION IN EX'G. STUD CAVITIES, RC-1 CHANNELS HORIZ. AT 1'-4" O.C. AND 3" GYPSUM BOARD OVER EX'G. STUDS.
- (A2) INFILL EX'G. OPENING FOR NEW DOOR FRAME w/-/ 2x. STUDS AND OTP. BD. TO MATCH EX'G. WALL THICKNESS.
- (A3) CONSTRUCT NEW PARTITION, 2x4 STUDS @ 1'-4" O.C. w/ ACOUSTICAL INSULATION, RC-1 CHANNELS HORIZ. @ 1'-4" O.C. ON TAG SIDE, AND 3" GYPSUM BOARD BOTH SIDES. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A4) INSTALL NEW BALLISTIC RECEPTION WINDOW - SEE DETAILS.
- (A6) INSTALL FURRING CHANNELS @ 16" O.C. OVER EXISTING WALL STUDS AND 3" GYPSUM BOARD ON TAG SIDE. SIZE FURRING TO CONCEAL STEEL COLUMNS WITHIN WALL CAVITY.
- (A7) CONSTRUCT NEW 2x. PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, AND 3" GYPSUM BOARD BOTH SIDES. SIZE STUDS TO CONCEAL STEEL COLUMN WITHIN WALL CAVITY. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A8) INSTALL FURRING CHANNELS @ 16" O.C. OVER EXISTING WALL STUDS. INSTALL ACOUSTICAL INSULATION AND 3" GYPSUM BOARD ON TAG SIDE. SIZE FURRING TO CONCEAL STEEL COLUMNS WITHIN WALL CAVITY.
- (A9) CONSTRUCT NEW 2x4 PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, AND 3" GYPSUM BOARD BOTH SIDES. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A10) CONSTRUCT NEW 2x4 PARTITION w/ STUDS @ 16" O.C. AND 3" GYPSUM BOARD BOTH SIDES. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A11) EXTEND EX'G. CEILING GRID LAYOUT w/ NEW GRID WALL ANGLE, MAINS AND TEES TO NEW ROOM PERIMETER.
- (A12) INFILL EX'G. OPENING w/ 2x. STUDS MATCHING EX'G. @ 16" O.C. AND 3" GYPSUM BOARD ON TAG SIDE.
- (A13) INFILL EX'G. OPENING w/ 2x4 STUDS @ 1'-4" O.C., ACOUSTICAL INSULATION AND 3" GYPSUM BOARD BOTH SIDES.
- (A14) NEW CEILING GRID, REINSTALL EXISTING CEILING TILE.
- (A15) NEW CEILING GRID, NEW CEILING TILE.
- (A16) CONSTRUCT NEW 2x4 PARTITION w/ 2x4 @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON ROOM SIDE, AND 3" GYPSUM BOARD ON OPP. SIDE. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A17) CONSTRUCT NEW 2x6 PARTITION w/ 2x6 @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON ROOM SIDE, AND 3" GYPSUM BOARD ON OPP. SIDE. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A18) INSTALL ACOUSTICAL INSULATION IN EX'G. STUD CAVITIES AND 3" TILE BACKER BOARD ON ROOM SIDE.
- (A19) INSTALL 3" TILE BACKER BOARD OVER EX'G. GYP BOARD ON ROOM SIDE.
- (A20) INFILL EX'G. OPENING w/ 2x4 STUDS @ 1'-4" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON TOILET ROOM SIDE, AND 3" GYPSUM BOARD OPP. SIDE.
- (A21) CONSTRUCT NEW 2x4 PARTITION w/ 2x4 @ 16" O.C. AND 3" TILE BACKER BOARD BOTH SIDES. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A22) REMOVE GYPSUM BOARD AND INSTALL SOLID 2x. CAVITIES, RC-1 CHANNELS HORIZ. AT 1'-4" O.C. BOARD AND FINISH TO MATCH EX'G. ADJACENT.
- (A23) INFILL EX'G. OPENING w/ 2x6 STUDS AT 16" O.C., R-19 INSULATION, 3" OSB SHEATHING, 3" GYPSUM BOARD AND INTERIOR/EXTERIOR FINISHES TO MATCH EX'G. ADJACENT.
- (A24) INSTALL NEW 3" GYPSUM BOARD OVER EXISTING STUDS.
- (A25) CONSTRUCT NEW CEILING CONSISTING OF 2x6 RAFTERS @ 16" O.C. w/ BULLET RESISTANT PANELS ON ROOM SIDE.
- (A26) RELOCATE EX'G. LOCKERS - COORDINATE LOCATION IN FIELD w/ OWNER.
- (A27) RELOCATE EX'G. CABINETS AND COUNTERTOP FROM LOCKER 109.
- (A28) CONSTRUCT NEW 2x. PARTITION w/ STUDS @ 16" O.C., RC-1 CHANNELS HORIZ. AT 1'-4" O.C. ON TAG SIDE, ACOUSTICAL INSULATION, AND 3" GYPSUM BOARD BOTH SIDES. SIZE STUDS TO CONCEAL STEEL COLUMN WITHIN WALL CAVITY. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A29) INSTALL NEW CULTURED STONE TO MATCH EX'G.
- (A30) INSTALL NEW VINYL SIDING AND TRIM TO MATCH EX'G.
- (A31) INSTALL NEW PRE-MANUFACTURED CANOPY
- (A32) RELOCATED EX'G. OPERABLE WINDOW REMOVED FROM ADJACENT OPENING.
- (A33) INSTALL NEW 4'-4"x9" WINDOW UNIT.
- (A34) INSTALL 3" BULLET RESISTANT PANELS AND NEW 3" O.S.B. SHEATHING OVER EX'G. FLOOR JOISTS.
- (A35) CONSTRUCT NEW 2x. PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON TAG SIDE, AND 3" GYPSUM BOARD ON OPP. SIDE. SIZE STUDS TO CONCEAL STEEL COLUMN WITHIN WALL CAVITY. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A36) CONSTRUCT NEW 2x6 PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON TAG SIDE, RC-1 CHANNELS HORIZ. AT 1'-4" O.C. AND 3" GYPSUM BOARD ON OPP. SIDE. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A37) CONSTRUCT NEW 2x4 PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON TAG SIDE, RC-1 CHANNELS HORIZ. AT 1'-4" O.C. AND 3" GYPSUM BOARD ON OPP. SIDE. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A38) CONSTRUCT NEW 2x4 PARTITION w/ STUDS @ 16" O.C., ACOUSTICAL INSULATION, 3" TILE BACKER BOARD ON TAG SIDE, RC-1 CHANNELS HORIZ. AT 1'-4" O.C. AND 3" GYPSUM BOARD ON OPP. SIDE. EXTEND FRAMING TO UNDERSIDE OF FLOOR TRUSSES LEAVING 3" GAP - SEE TYPICAL DETAILS FOR SLIP CONNECTION.
- (A39) INSTALL NEW WD. WINDOW CASING TO MATCH EX'G.
- (A40) REINSTALL EX'G. CABINETS AND COUNTERTOP AND FIXTURES.
- (A41) INSTALL ACOUSTICAL INSULATION BATTS ON TOP OF SUSPENDED CEILING.

KEYED DEMOLITION NOTES

- (D1) REMOVE EX'G. WALL BASE.
- (D2) REMOVE EX'G. GYPSUM BOARD.
- (D3) REMOVE EX'G. DOOR, FRAME, HARDWARE AND ACCESSORIES.
- (D4) SUPPORT EX'G. FIXTURES FROM STRUCTURE ABOVE AND REMOVE EX'G. CEILING PANELS, GRID TEES AND MAINS FOR ACOUSTICAL MODIFICATIONS TO DESIGNATED PARTITIONS. REMOVE WALL ANGLE ONLY AS REQ'D. FOR ACOUSTICAL MODIFICATIONS TO DESIGNATED PARTITIONS. STOCKPILE CEILING PANELS FOR REINSTALLATION.
- (D5) REMOVE EX'G. PARTITION FULL HGT.
- (D6) REMOVE EX'G. CARPETING AND PREPARE FOR NEW.
- (D7) CONSTRUCT NEW OPENING FOR RECEPTION WINDOW.
- (D8) REMOVE EX'G. DOOR FRAME AND CASING.
- (D9) REMOVE EX'G. WOOD TRIM FROM COLUMN FULL HGT.
- (D10) CONSTRUCT NEW OPENING FOR SHOWER.
- (D11) REMOVE EX'G. BASE AND WALL CABINETS AND COUNTER TOP.
- (D12) REMOVE EX'G. CEILING PANELS, GRID TEES, GRID MAINS, AND WALL ANGLE FOR ROOM RECONFIGURATION - EX'G. CLING CONFIGURATION UNKNOWN. REMOVE EX'G. LIGHT FIXTURES - SEE ELECTRICAL. REMOVE EX'G. HVAC DIFFUSERS FOR RELOCATION - SEE MECHANICAL.
- (D13) REMOVE EX'G. CEILING PANELS, GRID TEES, GRID MAINS, AND WALL ANGLE FOR ROOM RECONFIGURATION - EX'G. CLING CONFIGURATION UNKNOWN. REMOVE EX'G. LIGHT FIXTURES - SEE ELECTRICAL. REMOVE EX'G. HVAC DIFFUSERS FOR RELOCATION - SEE MECHANICAL.
- (D14) REMOVE EX'G. ACOUSTICAL TILE SOFFIT FOR ROOM RECONFIGURATION.
- (D15) CONSTRUCT NEW DOOR OPENING.
- (D16) REMOVE EX'G. BASE CABINETS, COUNTER TOP AND WALL CABINETS. STOCKPILE FOR RELOCATION TO EVIDENCE 110.
- (D17) REMOVE EX'G. SINK - STOCKPILE FOR REINSTALLATION IN NEW COUNTER TOP - SEE PLUMBING.
- (D18) REMOVE EX'G. LIGHT FIXTURE - STOCKPILE FOR RELOCATION - SEE ELECTRICAL.
- (D19) REMOVE EX'G. BASE CABINETS AND COUNTER TOP.
- (D20) REMOVE EX'G. BASE CABINETS, WALL CABINETS, FIXTURES AND COUNTER TOP. STOCKPILE FOR REINSTALLATION.
- (D21) REMOVE EX'G. FIRE EXTINGUISHER AND ACCESSORIES. STOCKPILE FOR RELOCATION/REINSTALLATION.
- (D22) CONSTRUCT NEW OPENING FOR BORROWED LIGHT WINDOW.
- (D23) REMOVE EX'G. LAVATORY AND LAVATORY RELATED ACCESSORIES (MIRROR, SOAP DISPENSER, ETC.).
- (D24) REMOVE EX'G. WATER CLOSET AND WATER CLOSET RELATED ACCESSORIES (GRAB BARS, TOILET TISSUE DISPENSER, FEMININE WIPKIN DISPOSAL UNIT, ETC.).
- (D25) REMOVE EX'G. URINAL.
- (D26) REMOVE EX'G. CERAMIC FLOOR TILE AND WALL BASE. PREPARE FOR NEW FLOORING - FULL AREA OF ROOM.
- (D27) REMOVE EX'G. MANSARD ROOF FINISHES AND FRAMING BACK TO WALL STUDS. SHEATH WALL STUDS AND PREPARE FOR NEW EXTERIOR FINISHES.
- (D28) REMOVE EX'G. WINDOW UNIT. STOCKPILE FOR RELOCATION/INSTALLATION IN NEW OPENING ON THIRD FLOOR STAIR.
- (D29) REMOVE EX'G. CROWN AND BASE TRIM, WALL PANELING, AND GYPSUM WALL BOARD. PREPARE STUDS TO RECEIVE NEW GYPSUM BOARD.
- (D30) REMOVE EX'G. CROWN MOLDING, GYPSUM BOARD CEILING AND FRAMING.
- (D31) REMOVE EX'G. WALL BASE AND GYPSUM BOARD FOR NEW WEAPONS CLEANING ROOM.
- (D32) REMOVE EX'G. FLOOR SHEATHING FOR INSTALL OF NEW BULLET RESISTANT PANELS ON FLOOR OF WEAPONS ROOM.
- (D33) REMOVE EX'G. FIXED GLAZING WINDOW UNITS ADJACENT TO ENTRY DOOR TOP REMAIN. INFILL OPENING TO EX'G. ENTRY DOOR UNIT. INFILL w/ 2x6 STUDS AT 16" O.C., 3" O.S.B. SHEATHING, R-19 INSULATION, AND 3" GYPSUM BOARD.
- (D34) REMOVE EX'G. FIXED GLAZING WINDOW UNIT. CONSTRUCT OPENING FOR RELOCATION OF SALVAGED WINDOW FROM SECOND FLOOR OPENING. INFILL w/ 2x6 STUDS AT 16" O.C., 3" O.S.B. SHEATHING, R-19 INSULATION, AND 3" GYPSUM BOARD.
- (D35) REMOVE EX'G. WINDOW UNIT. INFILL EX'G. OPENING AS REQ'D FOR INSTALLATION OF NEW ROUND WINDOW IN PLACE OF EX'G. SIZE NEW WINDOW TO FILL NARROWEST DIMENSION OF EXISTING ROUND OPENING (APPROX. 4'-4"x9"). INFILL w/ 2x6 STUDS AT 16" O.C., 3" O.S.B. SHEATHING, R-19 INSULATION, AND 3" GYPSUM BOARD.
- (D36) REMOVE EX'G. INTERIOR AND EXTERIOR WALL FINISHES AND SUBSTRATES DOWN TO STUDS. PREPARE TO RECEIVE NEW 3" FIRE-RATED GYPSUM BOARD FOR 1 hr. FIRE-RATED SHAFT ENCLOSURE.
- (D37) REMOVE EX'G. WINDOW BLIND.
- (D38) REMOVE EX'G. WINDOW CASING.
- (D39) REMOVE EX'G. GYP. BD. CEILING.
- (D40) REMOVE EX'G. PT. AS REQUIRED FOR NEW CONSTRUCTION.
- (D41) REMOVE EX'G. CONCRETE RAMP AND WALK.



NON-BRG. PERPENDICULAR TO TRUSS

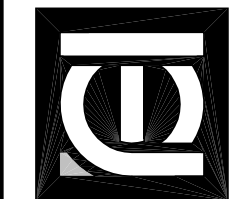
NON-BRG. PARALLEL TO TRUSS

TYP. WOOD PARTITION DETAILS

SCALE:

1" = 1'-0"

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DRAWING TITLE
TITLE SHEET
PROJECT INFORMATION and NOTES

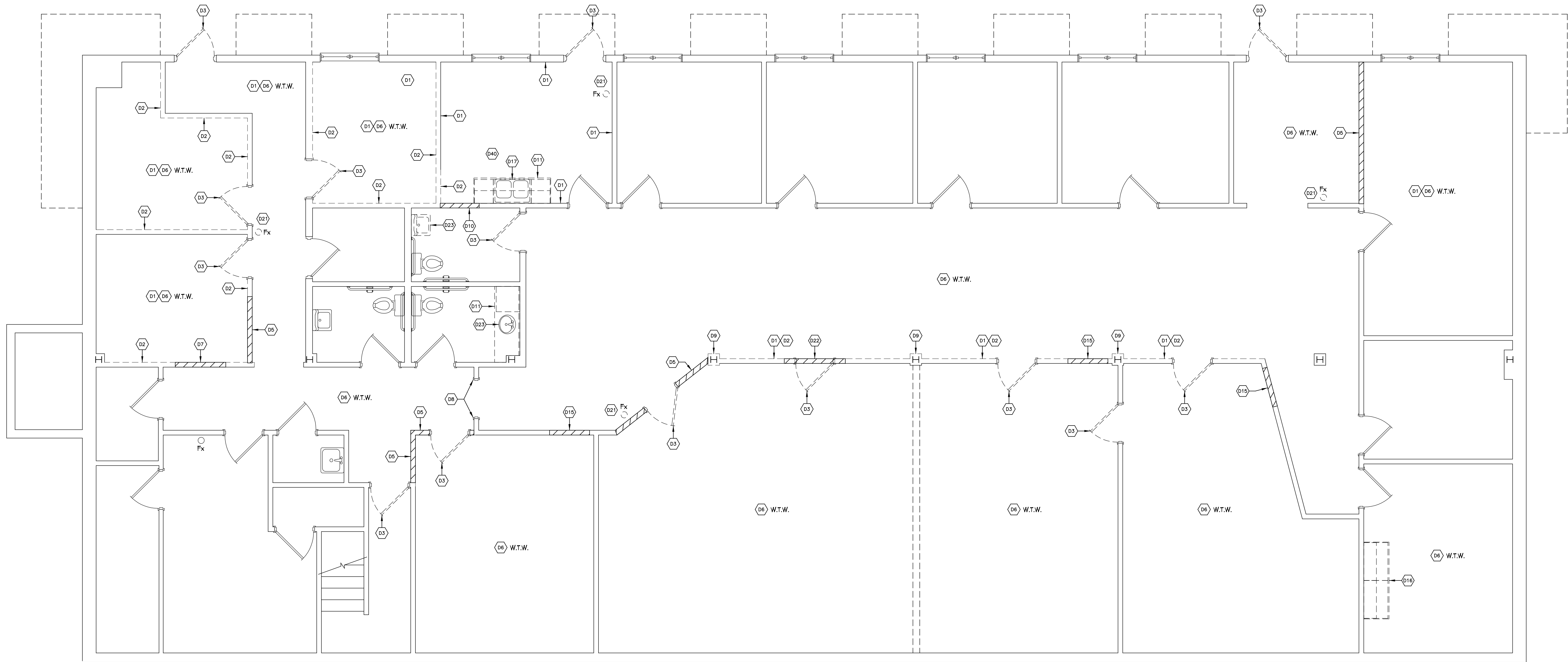
PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
APRIL 2, 2012

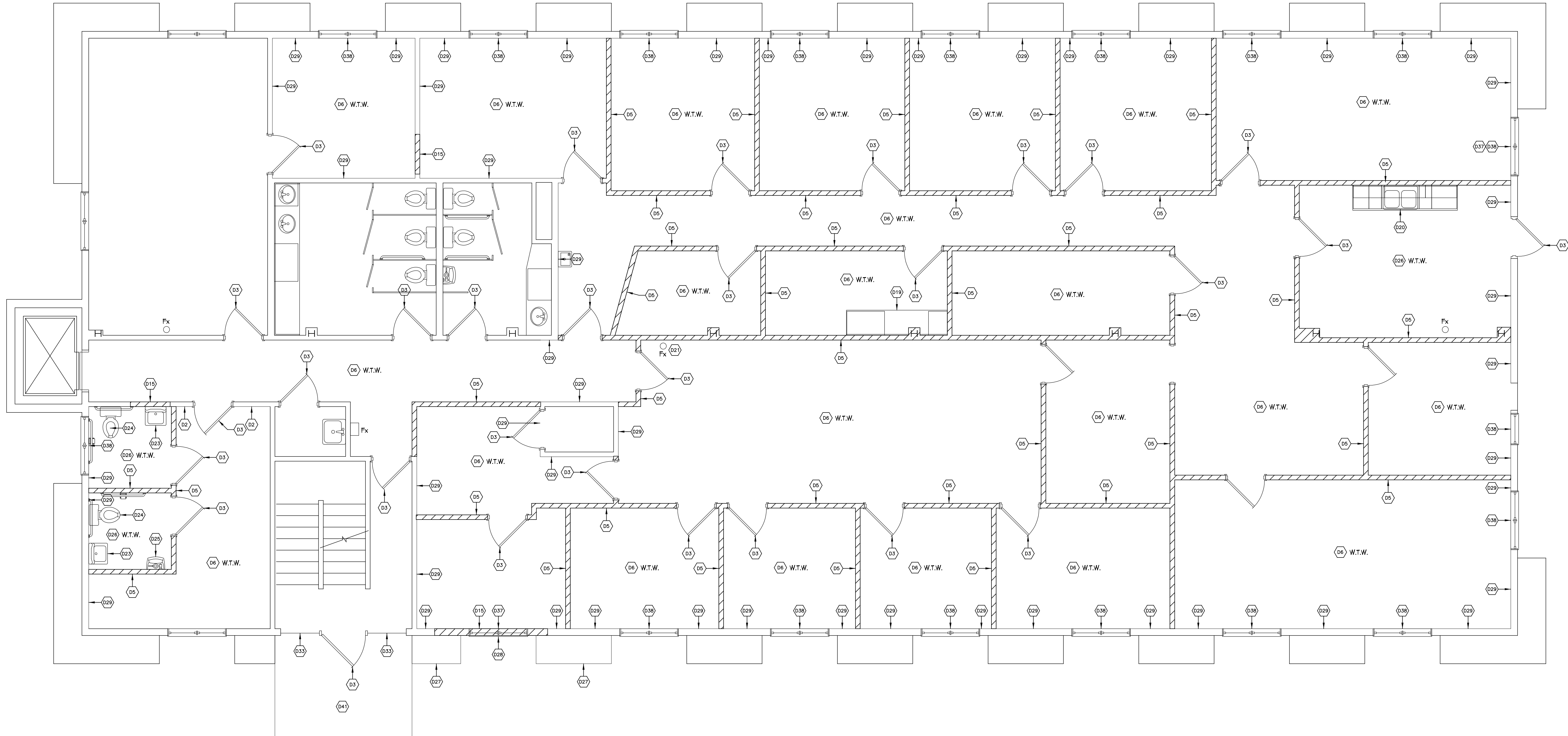
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STATE OF MICHIGAN
REGISTRATION



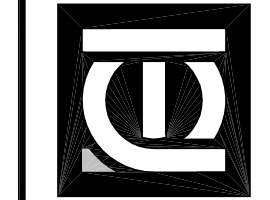
FIRST FLOOR DEMOLITION PLAN
SCALE: $\frac{1}{4}'' = 1'-0''$

SHEET	DATE	PROJECT NO.	PROJECT TITLE	DRAWING TITLE	ARCHITECT
D1.1	APRIL 2, 2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	FIRST FLOOR DEMOLITION PLAN	ANTHONY P. ESSON ARCHITECT PO BOX 479 GAYLORD, MICHIGAN 49734 TELEPHONE: (989) 732-0585



SECOND FLOOR DEMOLIITON PLAN

SCALE: $\frac{1}{4}'' = 1'-0''$



DRAWING TITLE

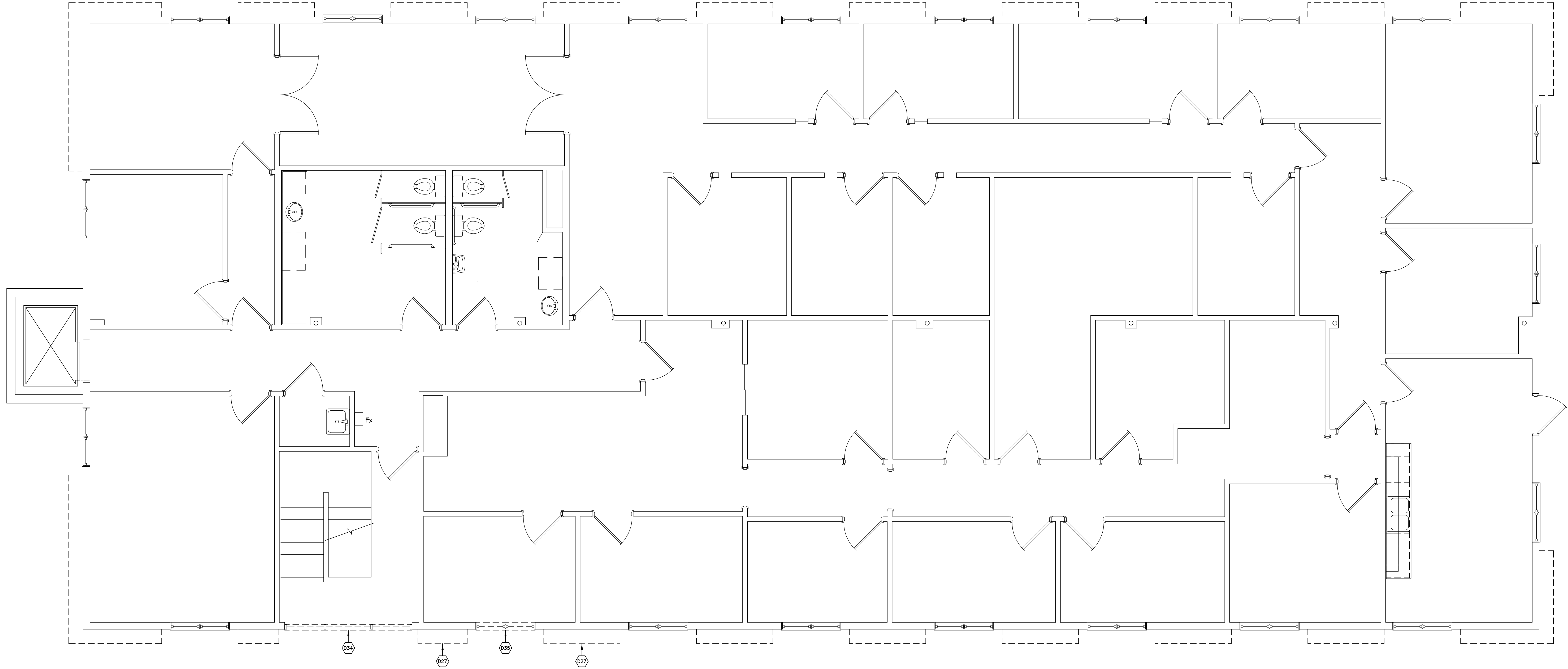
SECOND FLOOR DEMOLITION PLAN

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

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175-11

DATE
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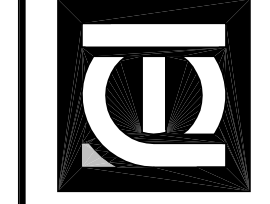
SHEET
D1.2

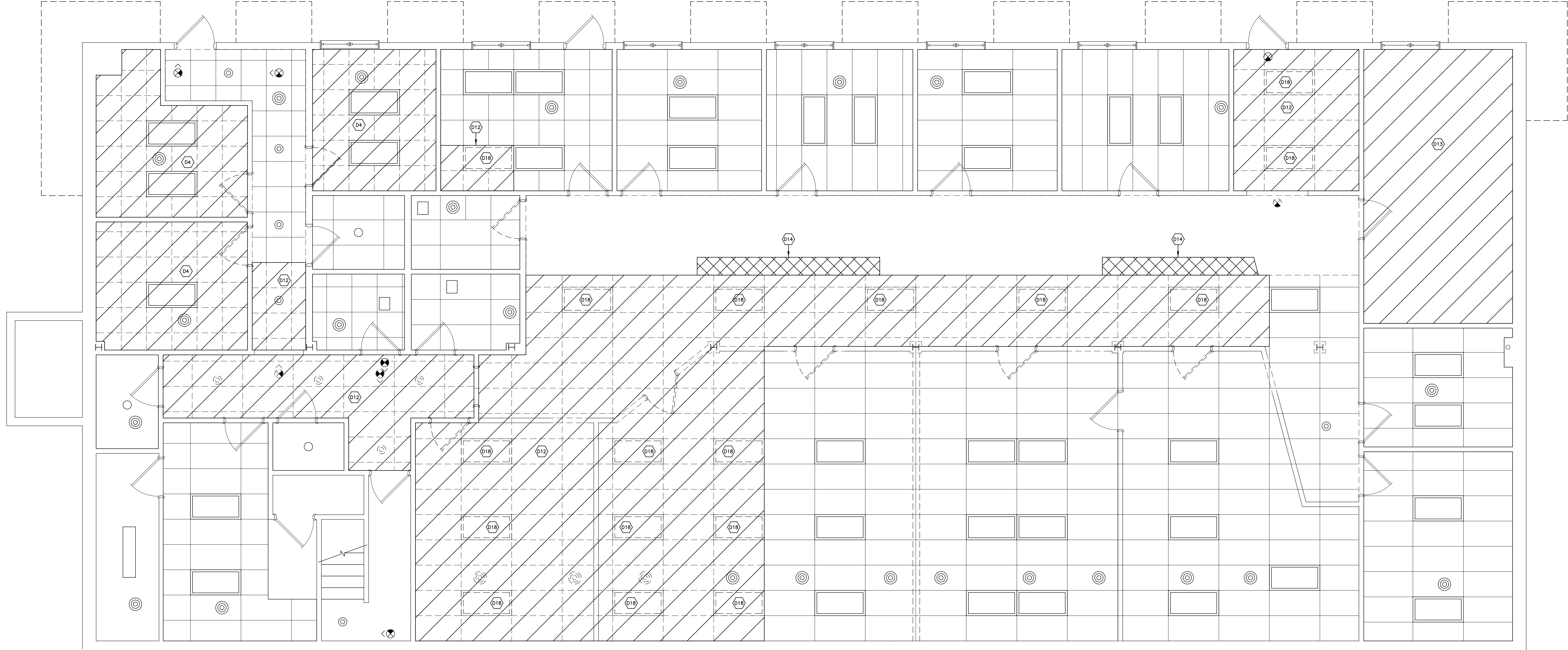


THIRD FLOOR DEMOLITION PLAN

SCALE:

1/4" = 1'-0"



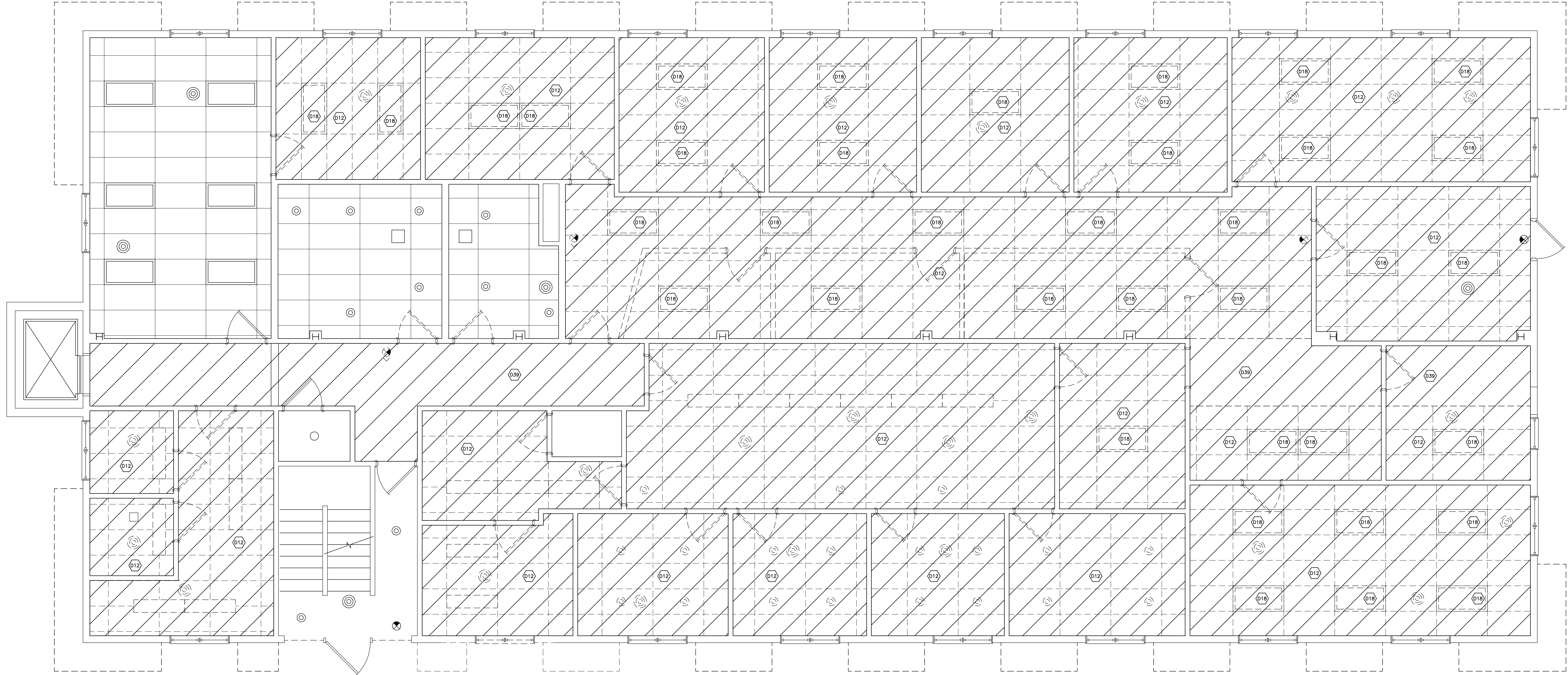


FIRST FLOOR PLAN - CEILING DEMOLITION

SCALE:

$\frac{1}{4}'' = 1'-0''$

SHEET	DATE	PROJECT NO.	PROJECT TITLE	DRAWING TITLE	ANTHONY P. ESSON ARCHITECT PO BOX 479 GAYLORD, MICHIGAN 49734 TELEPHONE: (989) 732-0585
D3.1	APRIL 2, 2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	FIRST FLOOR PLAN CEILING DEMOLITION	



SECOND FLOOR CEILING DEMOLIITON PLAN

SCALE:

$\frac{1}{4}" = 1'-0"$

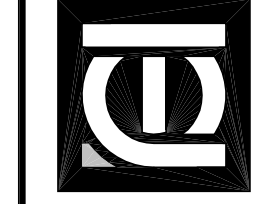
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D3.2

DATE
APRIL 2, 2012

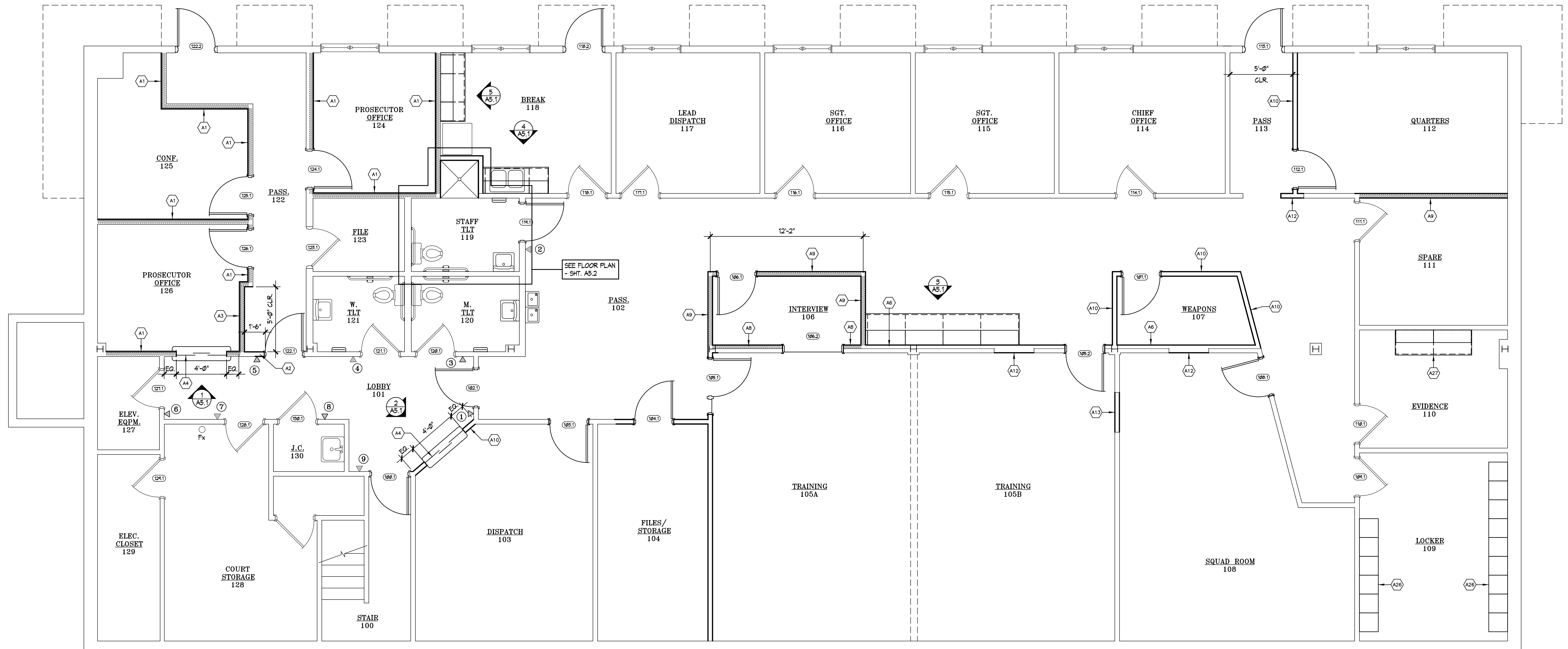
PROJECT NO.
175-11

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PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

DRAWING TITLE
**SECOND FLOOR PLAN
CEILING DEMOLITION**



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FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

ROOM IDENTIFICATION SIGN -
SEE SCHEDULE SHT. A5.1

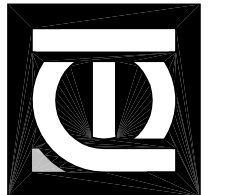
SHEET
A1.1

DATE
APRIL 2, 2012

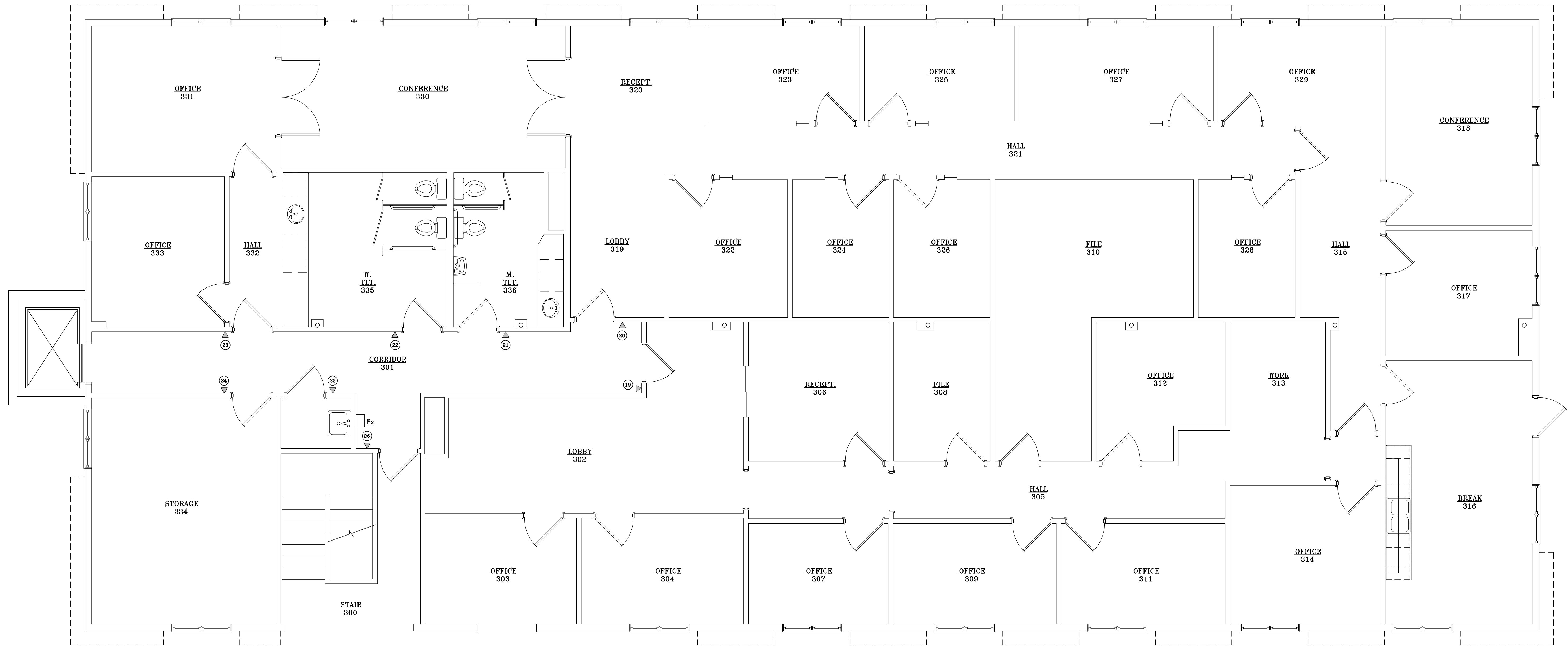
PROJECT NO.
175-11

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

DRAWING TITLE
FIRST FLOOR PLAN

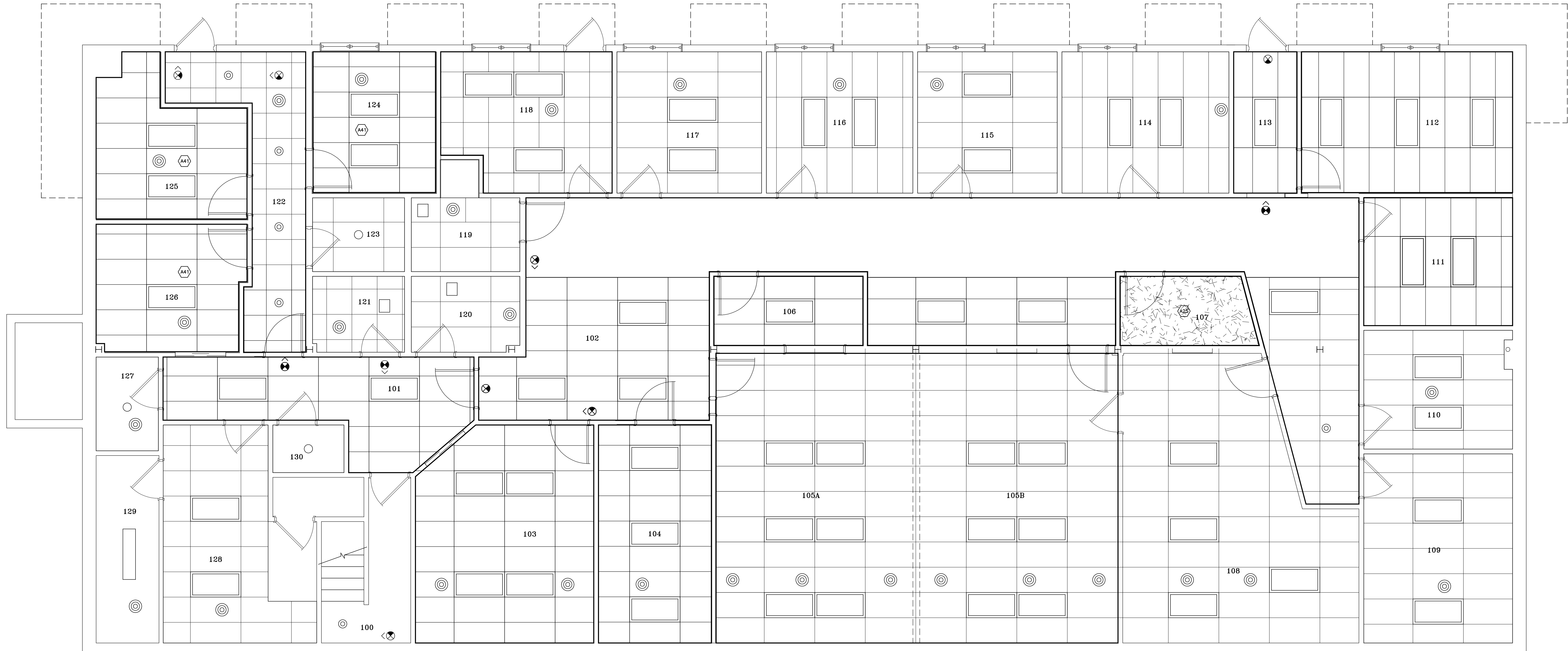


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THIRD FLOOR PLAN
SCALE: 1/4" = 1'-0"

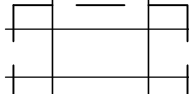

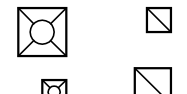
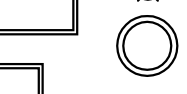


ROOM IDENTIFICATION SIGN -
SEE SCHEDULE 51T, A5.1



FIRST FLOOR REFLECTED CEILING PLAN

SCALE:

1/4" = 1'-0"

LEGEND	
	SUSPENDED ACOUSTICAL CEILING - SEE ROOM FINISH SCHEDULE FOR MATERIAL REQUIREMENTS
	BULLET-RESISTANT PANELS
	H.V.A.C. DIFFUSERS & GRILLES - SEE MECHANICAL PLANS
	
	LIGHT FIXTURES SEE ELECTRICAL PLANS
	

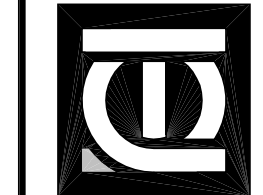
SHEET
A3.1

DATE
APRIL 2, 2012

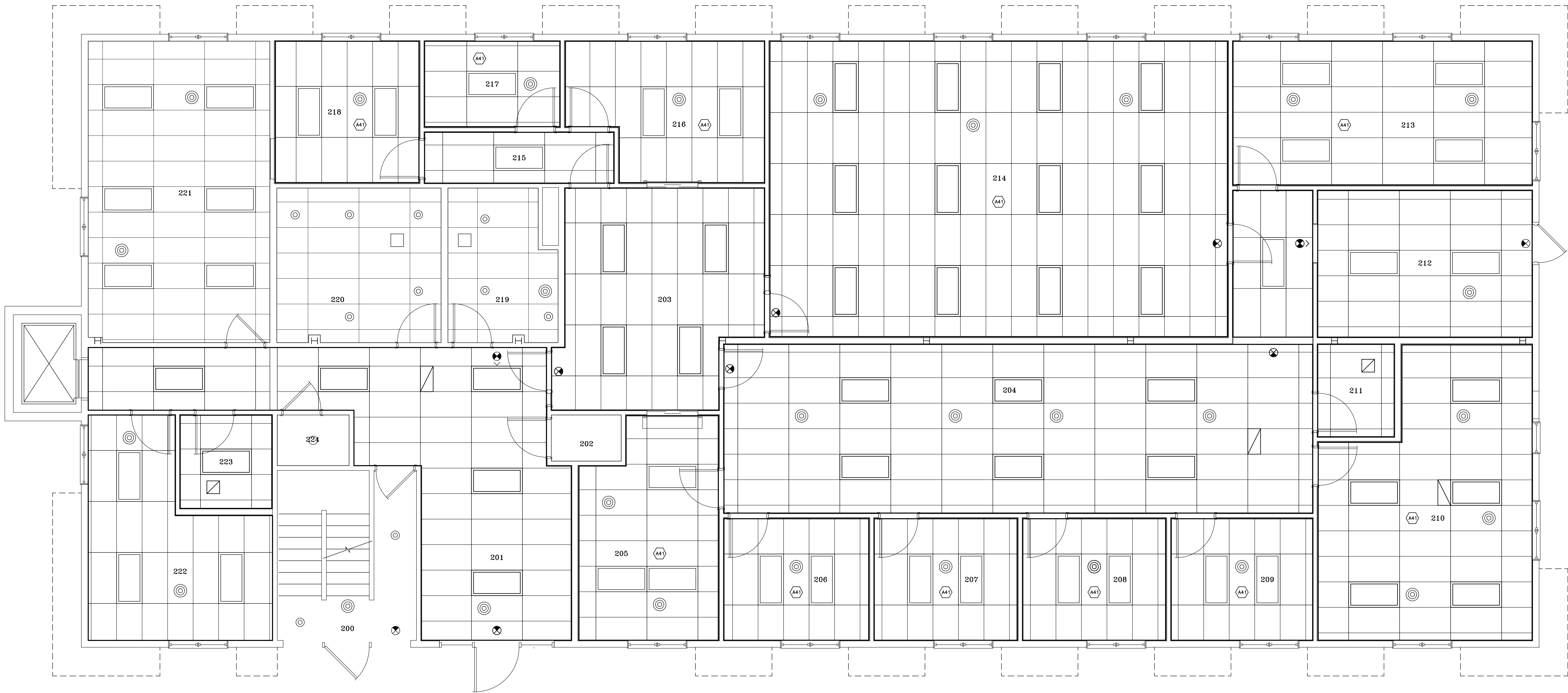
PROJECT NO.
175-11

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

DRAWING TITLE
**FIRST FLOOR PLAN
REFLECTED CEILING**



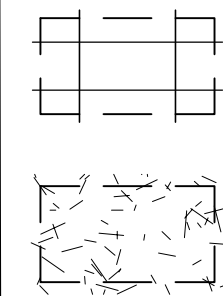
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SECOND FLOOR PLAN

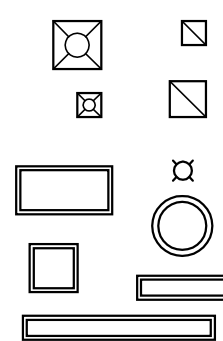
SCALE:

$\frac{1}{4}" = 1'-0"$



SUSPENDED ACOUSTICAL CEILING -
SEE ROOM FINISH SCHEDULE FOR
MATERIAL REQUIREMENTS

BULLET-RESISTANT PANELS



H.V.A.C. DIFFUSERS &
GRILLES - SEE
MECHANICAL PLANS

LIGHT FIXTURES SEE
ELECTRICAL PLANS

SHEET

A3.2

DATE

APRIL 2, 2012

PROJECT NO.

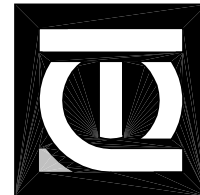
175-11

PROJECT TITLE

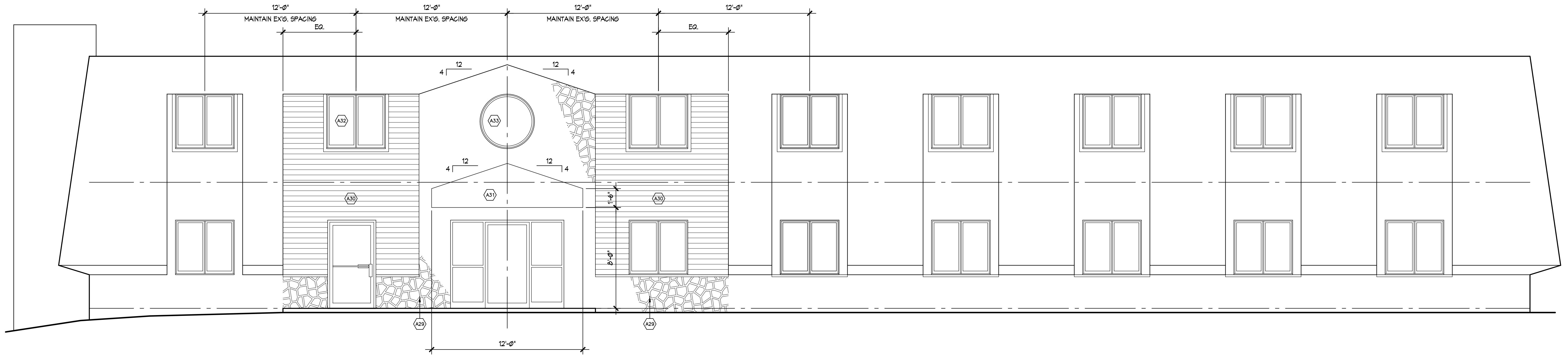
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB OJAWA INDIANS
PETOSKEY, MICHIGAN

DRAWING TITLE

SECOND FLOOR PLAN
REFLECTED CEILING

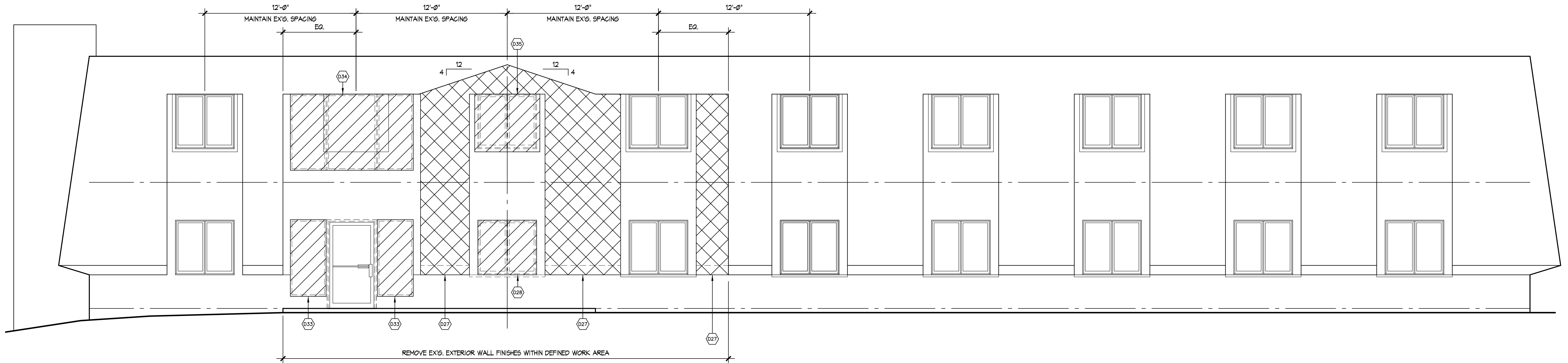


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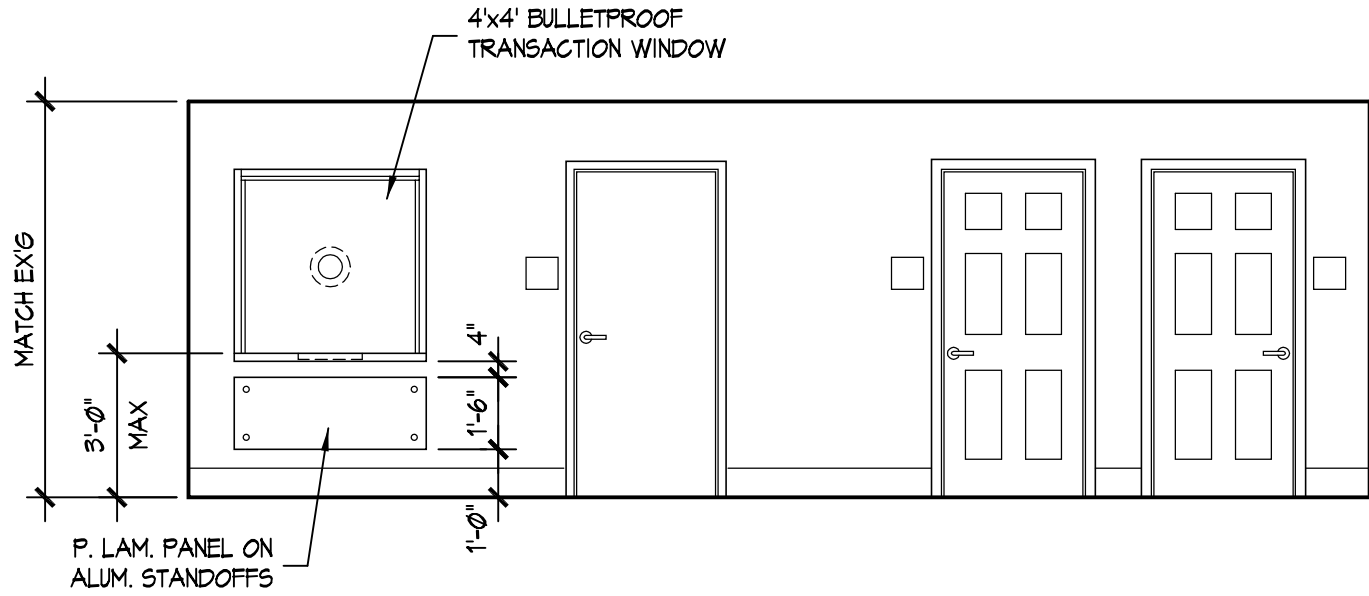
SOUTH ELEVATION

SCALE: $\frac{1}{4}" = 1'-0"$

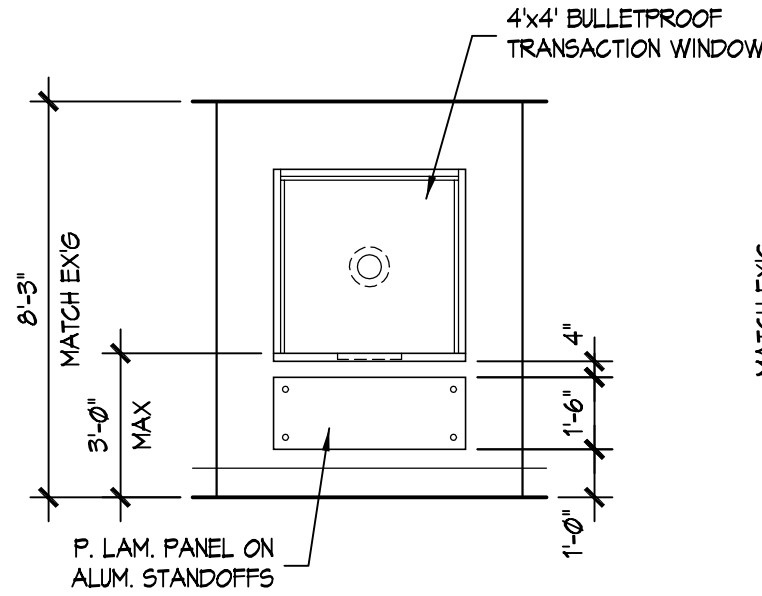


SOUTH ELEVATION - DEMOLITION

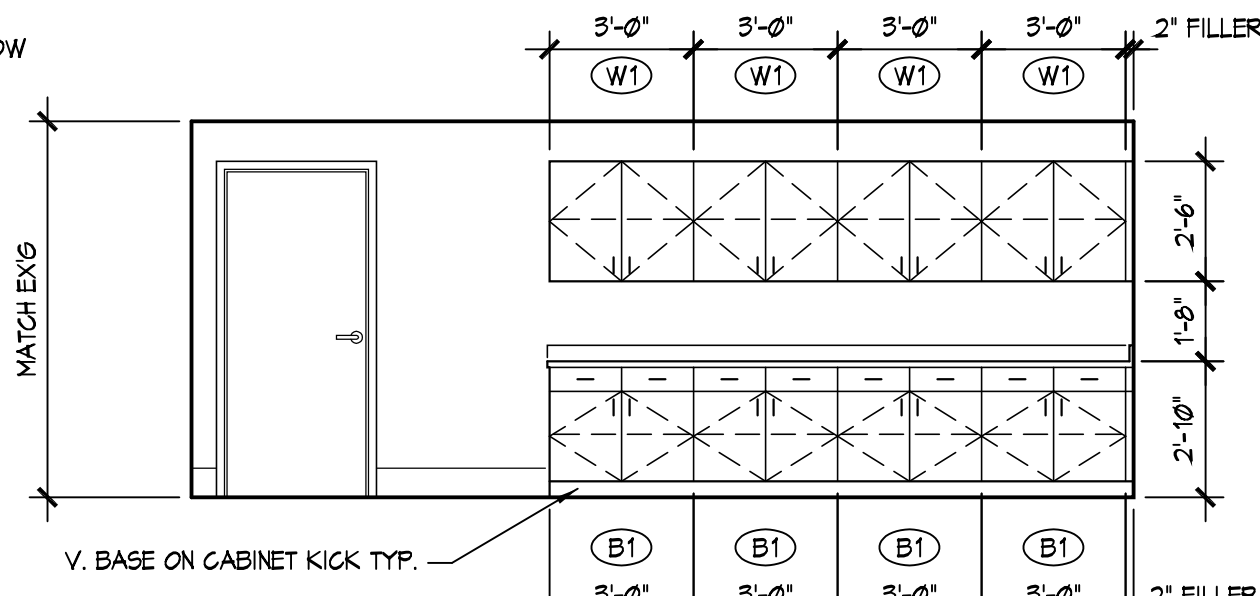
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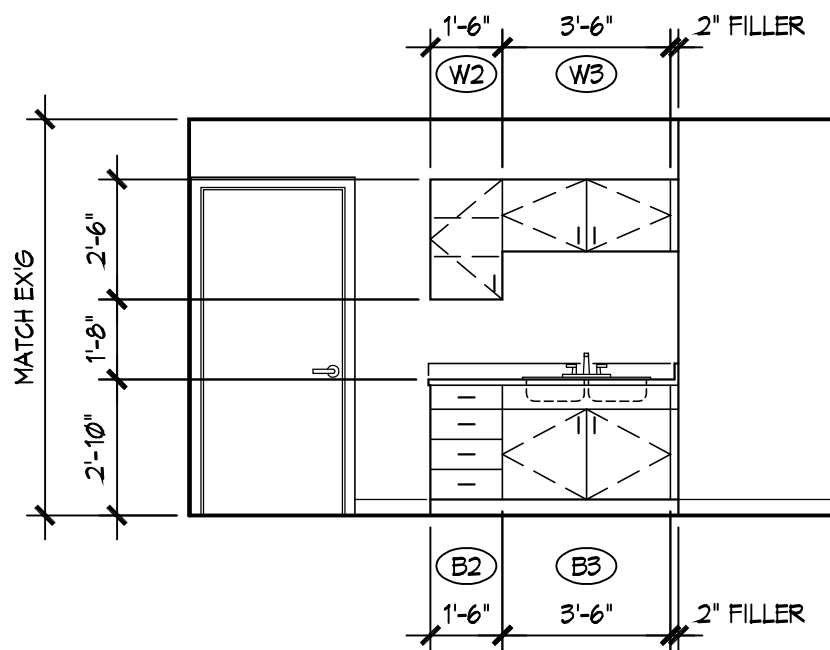
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A5.1
LOBBY 101 - N
SCALE: 1/4" = 1'-0"



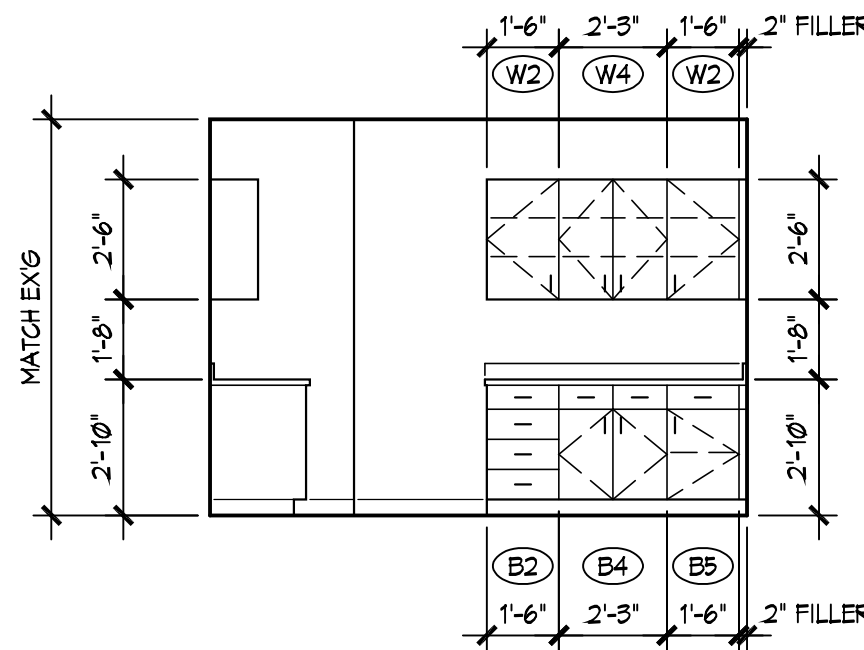
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A5.1
LOBBY 101 - SE
SCALE: 1/4" = 1'-0"



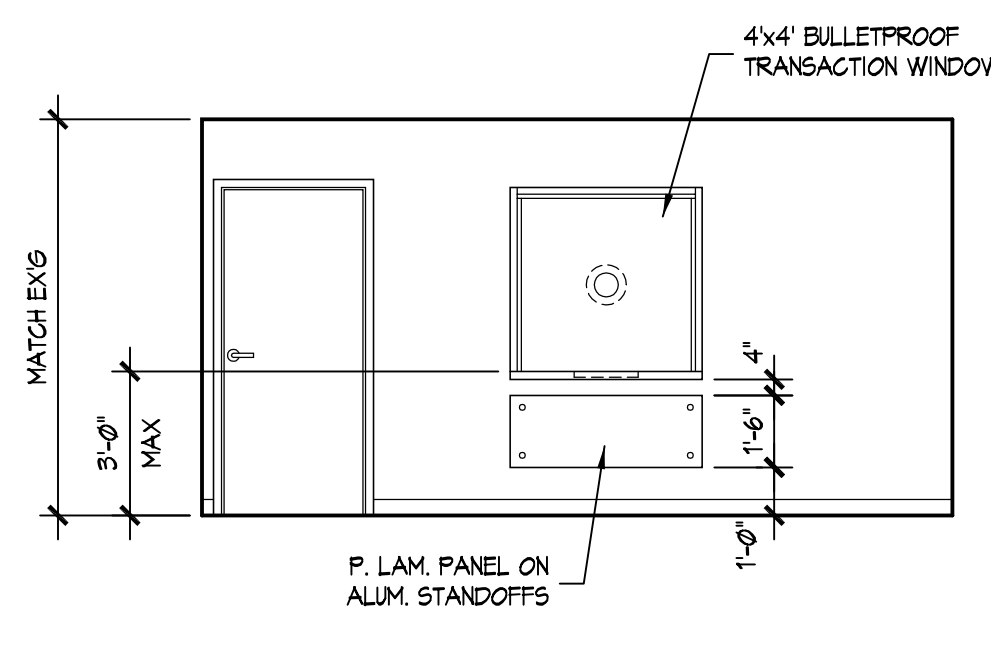
3
A5.1
PASSAGE 102 - S
SCALE: 1/4" = 1'-0"



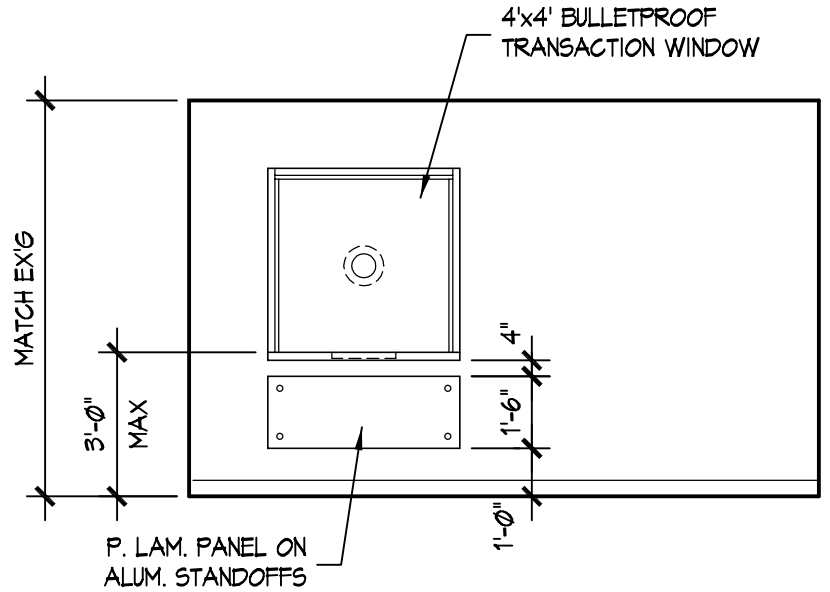
4
A5.1
BREAK 118 - S
SCALE: 1/4" = 1'-0"



5
A5.1
BREAK 118 - W
SCALE: 1/4" = 1'-0"



6
A5.1
COURT LOBBY 203 - N
SCALE: 1/4" = 1'-0"

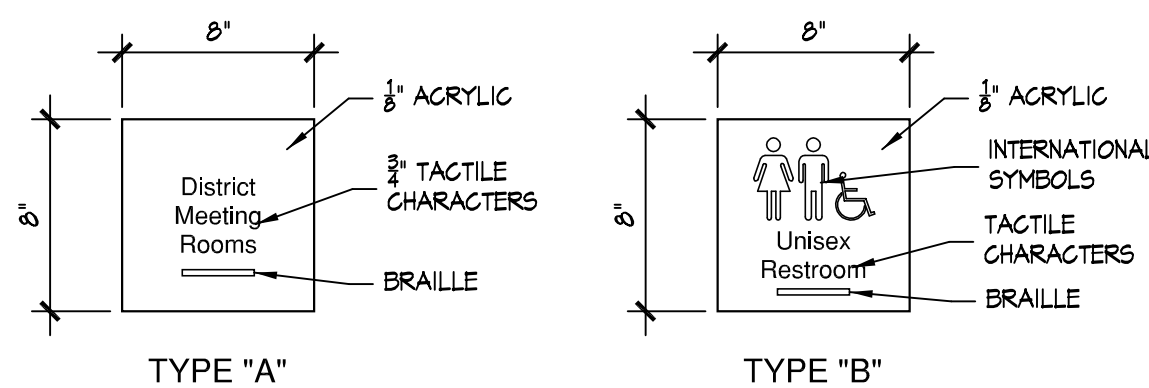


7
A5.1
COURT LOBBY 203 - S
SCALE: 1/4" = 1'-0"

ELEVATION ABBREVIATIONS	
B.F.G.B.	BARRIER FREE GRAB BAR
C.H.T.	CHALK TRAY
F.D.	FLOOR DRAIN
F.N.D.	FEMININE NAPKIN DISPOSAL
F.S.S.	FOLDING SHOWER SEAT
L.A.V.	LAVATORY
M.B.H.	MOP/BROOM HOLDER
M.B.	MARKER BOARD
MIR.	MIRROR
PLAM.	PLASTIC LAMINATE
P.T.D./D.	PAPER TOWEL DISPENSER/DISPOSAL
R/T.H.	ROBE/TOWEL HOOKS
T.B.	TACK BOARD
T.T.D.	TOILET TISSUE DISPENSER
S.D.	SOAP DISPENSER
S.C.R.	SHOWER CURTAIN ROD
W.C.	WATER CLOSET

CASEWORK SCHEDULE					
MARK	DESCRIPTION	DIMENSIONS SIZE (WxDxH)	DOORS	DRAWERS	SHELVES
B1	BASE CABINET	36x24x34	2	2	1
B2	DRAWER BASE	18x24x34	0	4	N/A
B3	SINK BASE CABINET	42x24x34	2	N/A	0
B4	BASE CABINET	27x24x34	2	2	1
B5	BASE CABINET	18x24x34	1	1	1
W1	WALL CABINET	36x15x30	2	N/A	2
W2	WALL CABINET	18x12x30	1	N/A	2
W3	WALL CABINET	42x12x18	1	N/A	0
W4	WALL CABINET	27x12x30	2	N/A	2

SIGN SCHEDULE			
SIGN TAG	SIGN TYPE	SIGN INFORMATION	
		SIGN INFORMATION	PICTOGRAM
1	A	Tribal Police	-
2	B	Staff Restroom	♂ ♀
3	B	Men's Restroom	♂
4	B	Women's Restroom	♀
5	A	Prosecutor's Office	-
6	A	Elevator Equipment	-
7	A	Storage	-
8	A	Janitor's Closet	-
9	A	Stair	-
10	A	Tribal Court	-
11	A	Men's Restroom	♂
12	B	Unisex Restroom (w/- directional arrow)	♂ ♀
13	A	Women's Restroom	♀
14	A	Information Technology	-
15	A	Conference	-
16	A	Unisex Restroom	♂ ♀
17	A	Janitor's Closet	-
18	A	Stair	-
19	A	Regulatory Department	-
20	A	Human Services	-
21	B	Men's Restroom	♂
22	B	Women's Restroom	♀
23	A	HR Staff Only	-
24	A	Storage	-
25	A	Janitor's Closet	-
26	A	Stair	-
27	A	Maximum Room Occupancy Shall Not Exceed 49 Occupants	-



ROOM FINISH SCHEDULE									
ROOM TAG	ROOM NAME	FLOOR DATA		WALL DATA (SUBSTRATE/FINISH)			CEILING DATA		REMARKS
		MATERIAL	W. BASE	NORTH	EAST	SOUTH	WEST	MATERIAL/FINISH	
100	STAIR	ETR		ETR				ETR	
101	LOBBY	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT-1	MATCH EXG
102	PASSAGE	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT-1	MATCH EXG - NOTE 4
103	DISPATCH	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
104	FILES/ STORAGE	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
105A	TRAINING	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	-	EXG GB - KD/IPS-1	GB - KD/IPS-1	SAT - NOTE 2	-
105B	TRAINING	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	-	ETR	
106	INTERVIEW	C	V	GB - KD/IPS-1				SAT - NOTE 1	MATCH EXG
107	WEAPONS	C	V	BRP/IPS-1				BRP/IPS-1	MATCH EXG
108	SQUAD ROOM	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	ETR	
109	LOCKER	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1				ETR	
110	EVIDENCE	ETR - NOTE 4		ETR				ETR	
111	SPARE	C	1x6 WD/ITF	GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT-1	MATCH EXG
112	QUARTERS	C	1x6 WD/ITF	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	GB - KD/IPS-1	SAT-1	MATCH EXG
113	PASSAGE	PT	1x6 WD/ITF	EXG GB - KD/IPS-1	GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
114	CHIEF OFFICE	ETR		ETR				ETR	
115	SGT. OFFICE	ETR		ETR				ETR	
116	SGT. OFFICE	ETR		ETR				ETR	
117	LEAD DISPATCH	ETR		ETR				ETR	
118	BREAK	EXG PT - NOTE 5	V	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 2	MATCH EXG
119	STAFF TLT	ETR		EXG GB/IPS-2	EXG GB/IPS-2	EXG GB/IPS-2	EXG GB/IPS-2	ETR	SHOWER - NOTES 6, 7, 8
120	M. TLT	ETR		EXG GB/IPS-2				ETR	
121	W. TLT	ETR		EXG GB/IPS-2				ETR	
122	PASSAGE	C	V	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 2	-
123	FILE	ETR		ETR				ETR	
124	PROSECUTOR OFFICE	C	V	EXG GB - KD/IPS-1	GB - KD/IPS-1	GB - KD/IPS-1	GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
125	CONFERENCE	C	V	EXG GB - KD/IPS-1	GB - KD/IPS-1	GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
126	PROSECUTOR OFFICE	C	V	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT - NOTE 1	MATCH EXG
127	ELEV. EQPM.	ETR		ETR				ETR	
128	COURT STORAGE	ETR		ETR				ETR	
129	ELEC. CLOSET	ETR		ETR				ETR	
130	J.C.	ETR		ETR				ETR	
200	STAIR	ETR		ETR	ETR	EXG GB/IPS-1	ETR	ETR	
201	LOBBY	C	EXG WD - NOTE 3	EXG GB - KD/IPS-1	GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	SAT-1	MATCH EXG
202	FURNACE	ETR		ETR				ETR	
203	COURT LOBBY	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
204	OPEN OFFICE	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
205	COURT CLERK	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
206	COURT CLERK	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
207	T.C. ADMIN. OFFICE	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
208	CULTURAL ADVISOR	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
209	ASSIST. JUDGE	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
210	APPELLATE JUDGES	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
211	STAFF TLT.	PT		PT				SAT-1	8'-3" - NOTE 4
212	BREAK	PT		GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
213	CHIEF JUDGE	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
214	COURT ROOM	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
215	PASS	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
216	PROBATION	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
217	CONF.	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
218	PROBATION	C	V	GB - KD/IPS-1				SAT-1	8'-3" - NOTE 4
219	M. TLT.	ETR		ETR				ETR	
220	W. TLT.	ETR		ETR				ETR	
221	I.T.	ETR		ETR				ETR	
222	CONF.	C	V	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	EXG GB - KD/IPS-1	GB - KD/IPS-1	SAT-1	8'-3" - NOTE 4
223	UNISEX B.F. TLT.	PT		PT				SAT-1	8'-3" - NOTE 4
224	J.C.	ETR		ETR				ETR	
300	STAIR	ETR		ETR	ETR	EXG GB - KD/IPS-1	ETR	ETR	
301	CORRIDOR	ETR		ETR				ETR	
302	LOBBY	ETR		ETR				ETR	
303	OFFICE	ETR		ETR	ETR	EXG GB - KD/IPS-1	ETR	ETR	
304	OFFICE - 334 M. TLT.	ETR		ETR				ETR	

GENERAL NOTES:

PAINT ALL NEW INTERIOR HOLLOW METAL DOOR FRAMES IPS-3.

WHERE EXISTING INTERIOR HOLLOW METAL DOORS AND FRAMES OCCUR IN WALLS SCHEDULED TO BE PAINTED, PAINT EXG H.M. DOORS AND FRAMES IPS-3.

RUNNING WOOD TRIM IS TO BE FINISHED ITF TO MATCH EXISTING.

PATCH EXISTING MATERIALS AND FINISHES AFFECTED BY DEMOLITION TO MATCH REMAINING EXISTING ADJACENT MATERIALS AND FINISHES.

KEYED NOTES:

1. INSTALL EXG. CEILING TILE IN NEW GRID.

2. EXTEND GRID LAYOUT w/- NEW AND INSTALL EXG. CEILING TILE IN NEW GRID.

3. EXG WOOD BASE TO REMAIN. INSTALL NEW WOOD BASE/ITF TO MATCH ON NEW WALLS AND/OR IN PATCHED AREAS AND AREAS WHERE ITEMS WERE REMOVED.

4. CUT BACK CARPET AND BASE FOR NEW CASEWORK - INSTALL NEW V BASE ON CASEWORK KICK.

5. PATCH EXG PT TO MATCH EXG AT NEW WALL.

6. SHOWER FLOOR AND WALLS ARE TO BE CERAMIC TILE.

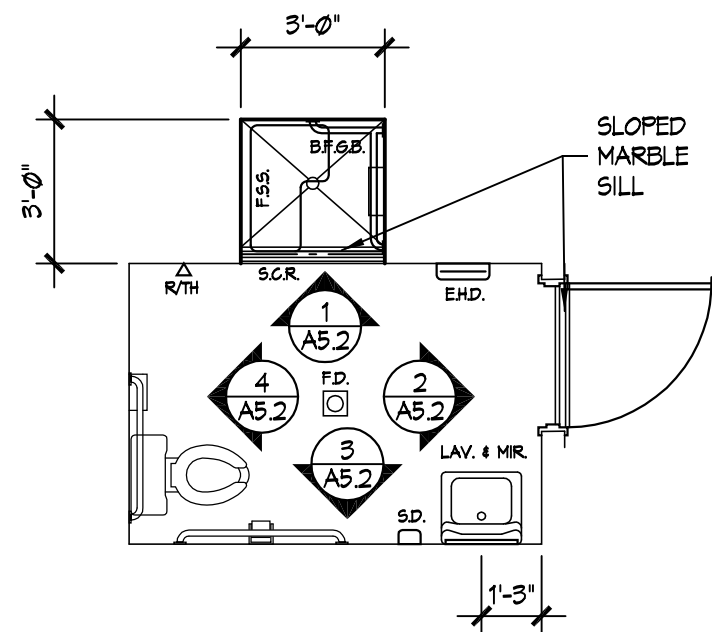
7. PROVIDE MARBLE THRESHOLD AT SHOWER OPENING.

8. SHOWER CEILING GB/IPS-2.

9. INSTALL CEILING AS HIGH AS POSSIBLE WHERE IN CONFLICT WITH EXG. DUCTWORK.

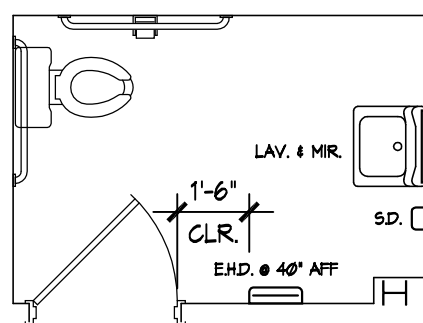
ROOM FINISH SCHEDULE ABBREVIATIONS:

CT	CERAMIC TILE
BRP	BULLET RESISTANT PANELS
ETR	EXISTING TO REMAIN
EXG	EXISTING
GB	GYP SUM BOARD
IPS-1	INTERIOR PAINT SYSTEM -1 (LATEX)
IPS-2	INTERIOR PAINT SYSTEM -2 (EPOXY)
IPS-3	INTERIOR PAINT SYSTEM -3 (ENAMEL)
ITF	INTERIOR TRANSPARENT FINISH
KD	KNOCK-DOWN PLASTER FINISH
PT	PORCELAIN TILE
SAT-1	SUSPENDED ACOUSTICAL TILE - 1 (2x4)
V	VINYL WALL BASE
VGT	VINYL COMPOSITION TILE
WD	WOOD (PINE) WALL BASE



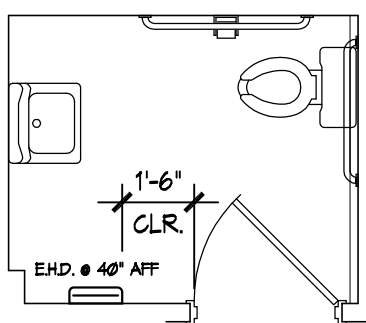
STAFF TOILET 119

SCALE: 1/4" = 1'-0"



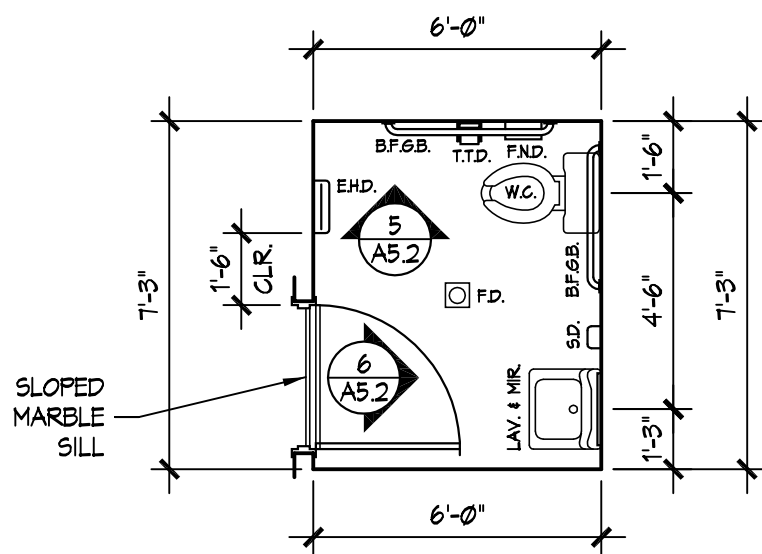
MENS TOILET 120

SCALE: 1/4" = 1'-0"



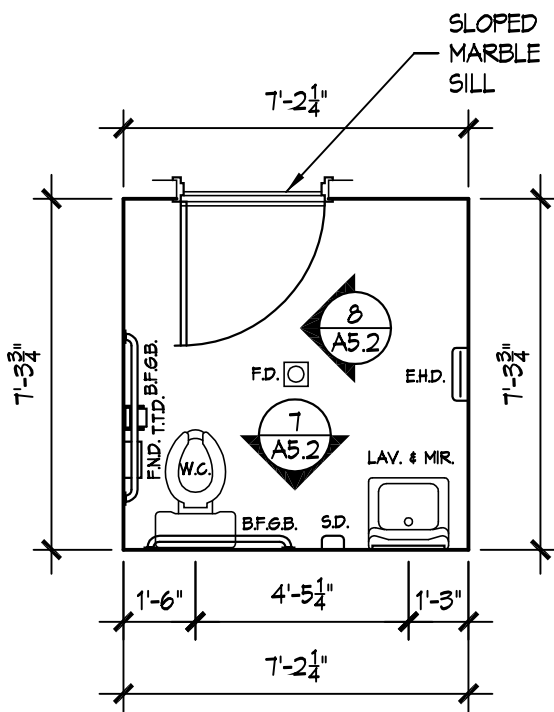
WOMENS TOILET 121

SCALE: 1/4" = 1'-0"



STAFF TOILET 211

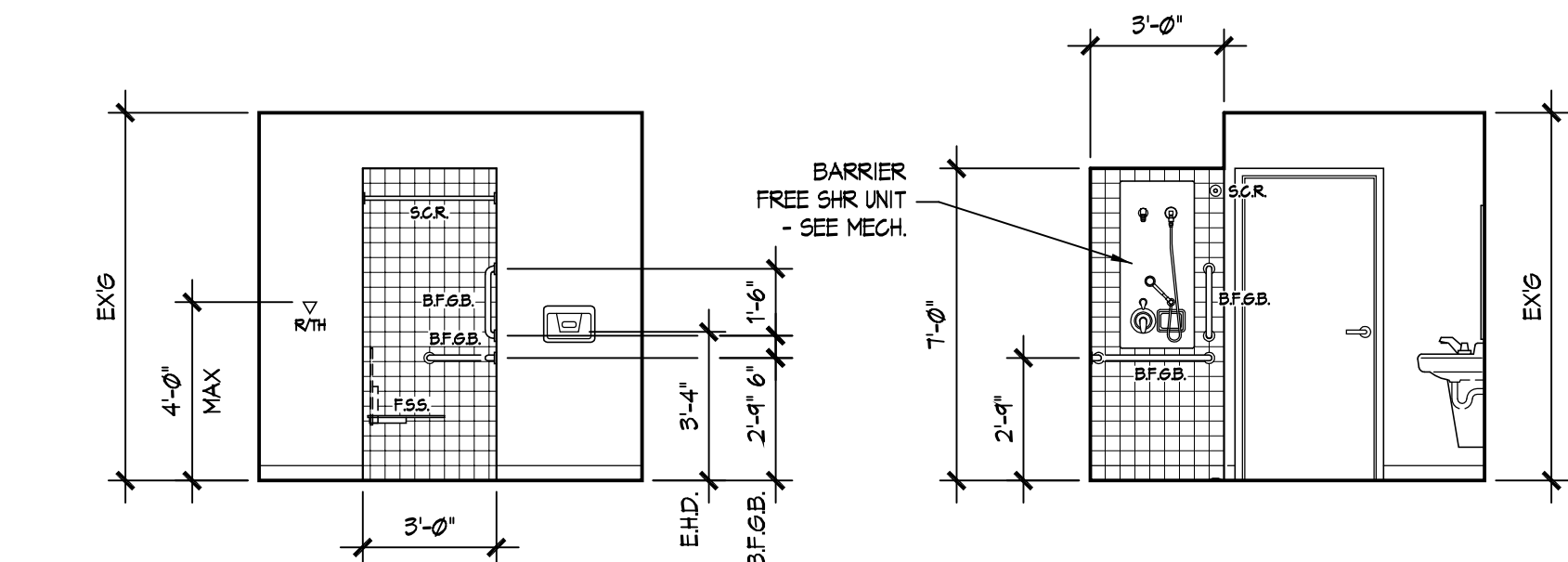
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UNISEX B.F. TOILET 223

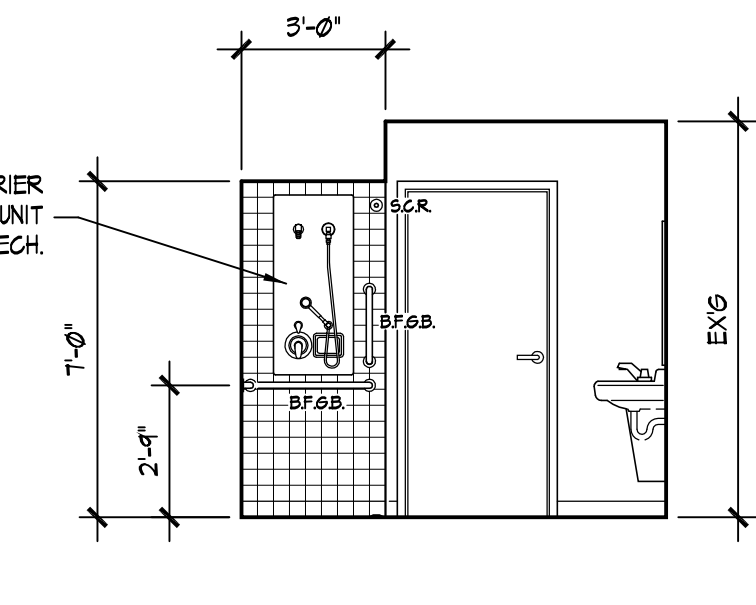
SCALE: 1/4" = 1'-0"

ELEVATION ABBREVIATIONS	
B.F.G.B.	BARRIER FREE GRAB BAR
C.H.T.	CHALK TRAY
E.H.D.	ELECTRIC HAND DRYER
F.D.	FLOOR DRAIN
F.N.D.	FEMINE NAPKIN DISPOSAL
F.S.S.	FOLDING SHOWER SEAT
LAV.	LAVATORY
M.B.H.	MOP/BROOM HOLDER
M.B.	MARKER BOARD
M.R.	MIRROR
PLAM	PLASTIC LAMINATE
P.T.D./D.	PAPER TOWEL DISPENSER/DISPOSAL
R/T.H.	ROBE/TOWEL HOOKS
T.B.	TACK BOARD
T.T.D.	TOILET TISSUE DISPENSER
S.D.	SOAP DISPENSER
S.C.R.	SHOWER CURTAIN ROD
W.C.	WATER CLOSET



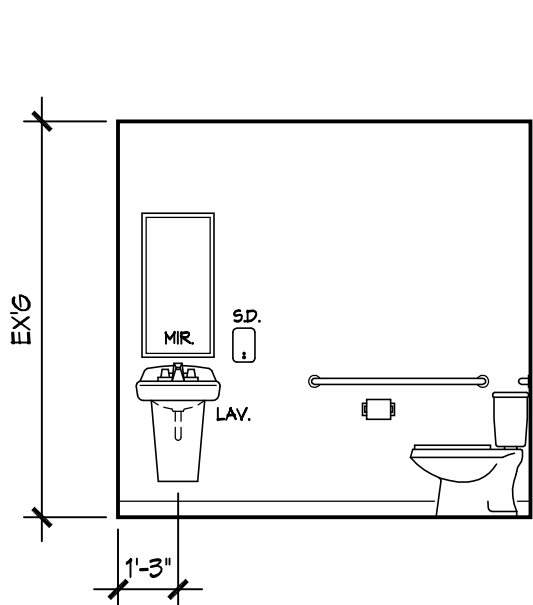
STAFF TOILET 119

SCALE: 1/4" = 1'-0"



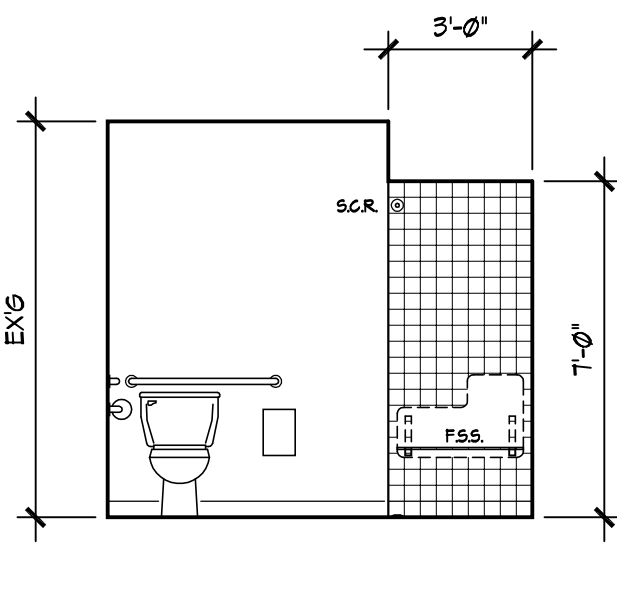
STAFF TOILET 119

SCALE: 1/4" = 1'-0"



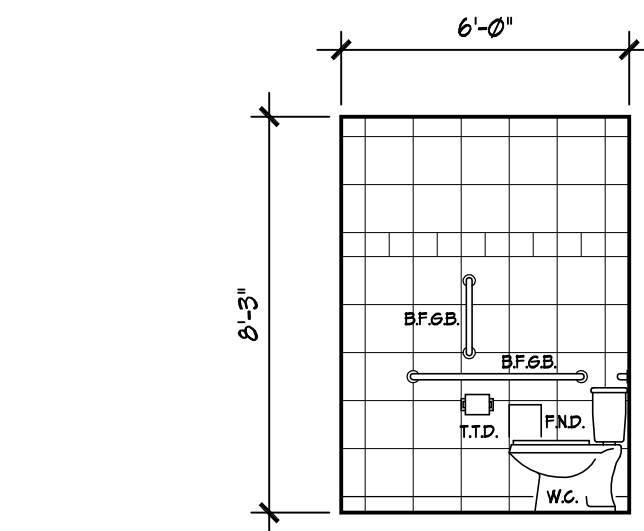
STAFF TOILET 119

SCALE: 1/4" = 1'-0"



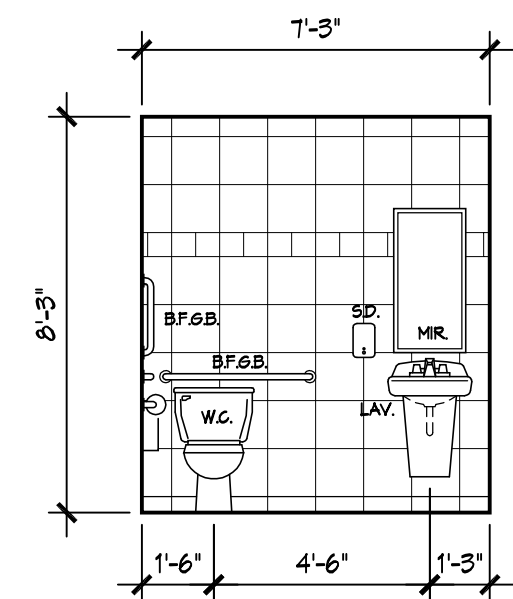
STAFF TOILET 119

SCALE: 1/4" = 1'-0"



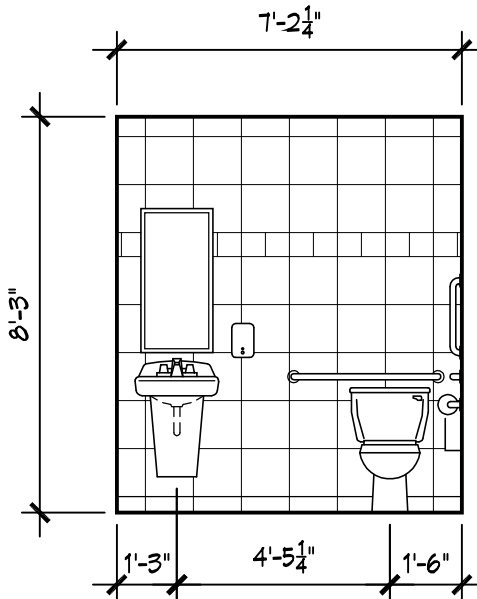
STAFF TOILET 211

SCALE: 1/4" = 1'-0"



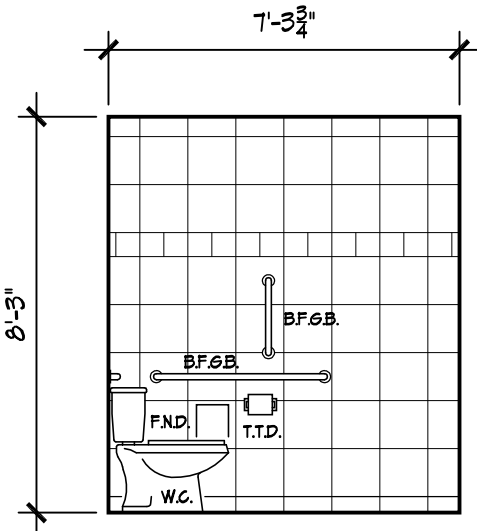
STAFF TOILET 211

SCALE: 1/4" = 1'-0"



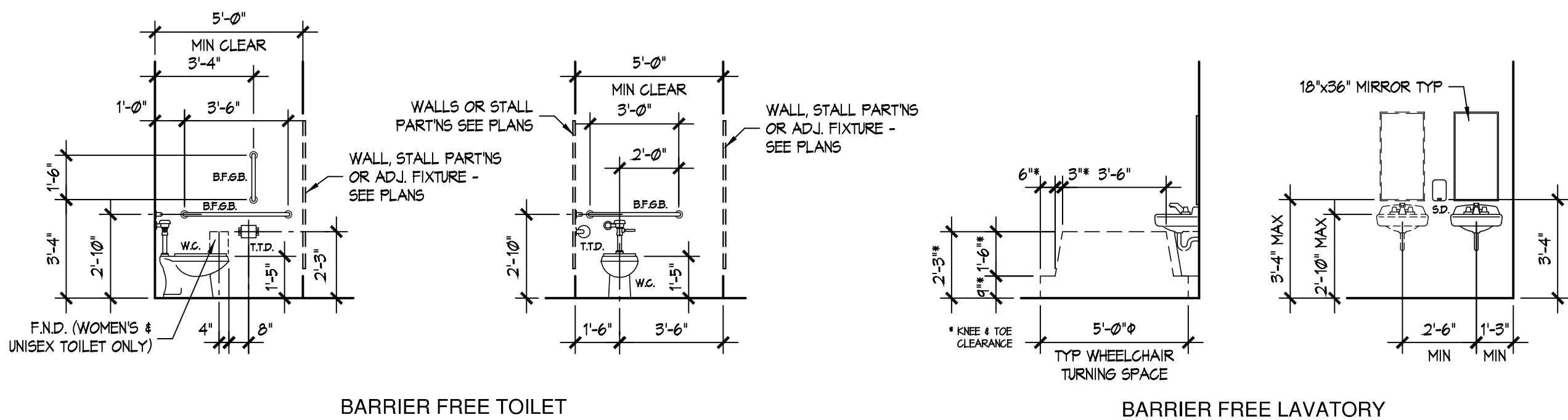
UNISEX B.F. TOILET 223

SCALE: 1/4" = 1'-0"



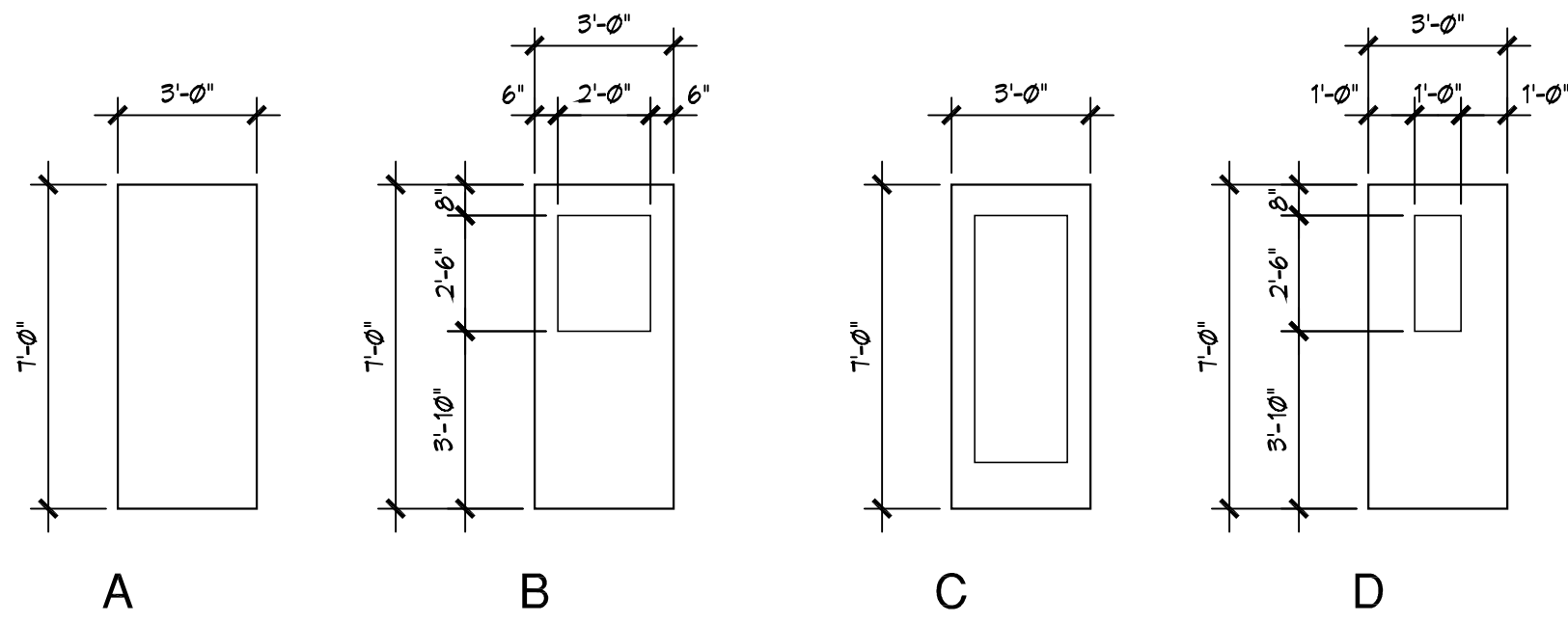
UNISEX B.F. TOILET 223

SCALE: 1/4" = 1'-0"



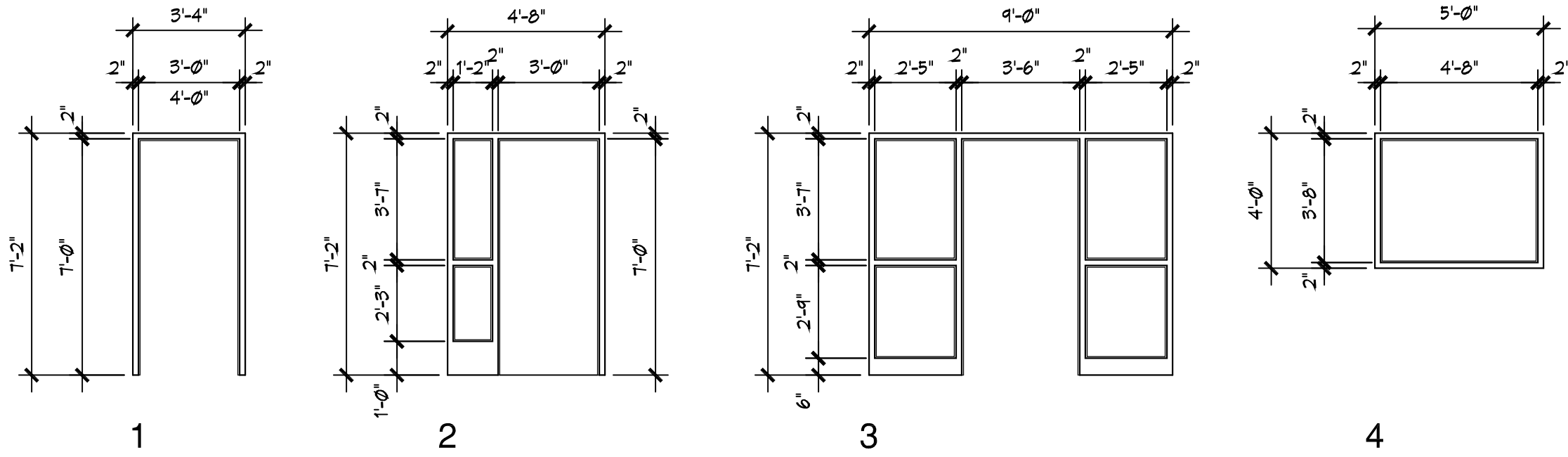
TYPICAL TOILET FIXTURE AND ACCESSORIE ELEVATIONS

SCALE: 1/4" = 1'-0"



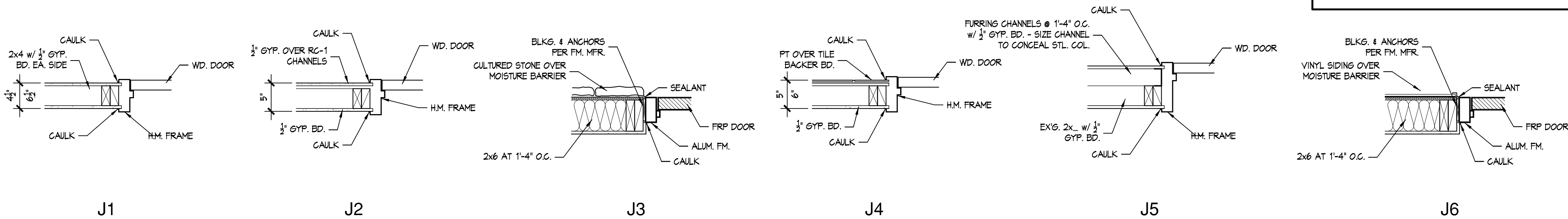
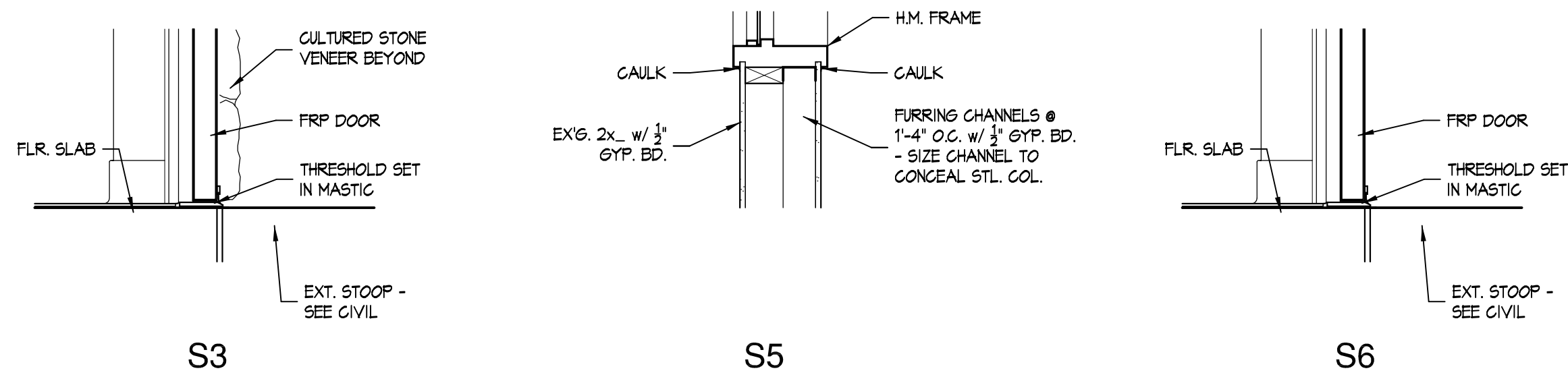
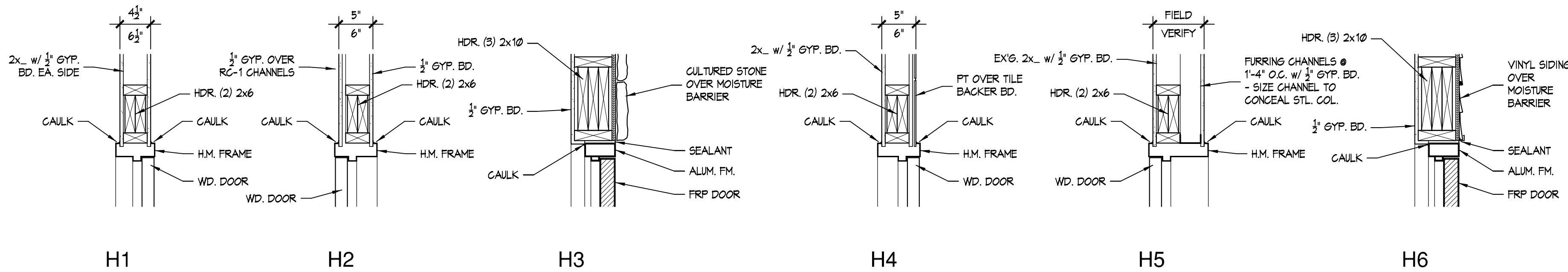
DOOR PROFILES

SCALE: 1/4" = 1'-0"



FRAME PROFILES

SCALE: 1/4" = 1'-0"



HEAD, SILL, and JAMB DETAILS

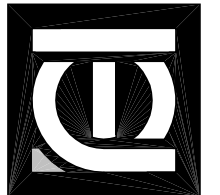
SCALE: 1" = 1'-0"

DOOR SCHEDULE

DOOR NO.	DOOR SIZE	DOOR DATA			FRAME DATA			DETAILS			FIRE-RATING	HOWE SET	REMARKS
		MAT.	PROFILE	GLAZING	MAT.	PROFILE	GLAZING	HEAD	SILL	JAMB			
100.1	3'-0"X7'-0" - NOTE 4	WD	D	FIRE	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	B-60	1	SEE ALT. A2
102.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	2	SEE ALT. A6
103.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	3	
104.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1	-	J1	-	4	
105.1	3'-0"X7'-0"	WD	A	-	H.M.	2	TEMP	H1	-	J1	-	5	
105.2	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H5 - NOTE 3	-	J5 - NOTE 3	-	5	
106.1	3'-0"X7'-0"	WD	B	TEMP	H.M.	1	-	H1	-	J1	-	5	
106.2	-	-	-	-	H.M.	4	TEMP - NOTE 1	H5 (SIM) NOTE 3	-	J5 (SIM) NOTE 3	-	6	
107.1	3'-0"X7'-0"	NOTE 6	A	-	H.M.	1	-	H4 - SIM	-	J4 - SIM	-	7	
108.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	5	
109.1	ETR.		ETR.			ETR.			ETR.		-	8	SEE ALT. A5
110.1	ETR.		ETR.			ETR.			ETR.		-	9	SEE ALT. A5
111.1	ETR.		ETR.			ETR.			ETR.		-	10	SEE ALT. A5
112.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1	-	J1	-	5	
113.1	3'-0"X7'-0" - NOTE 4	FRP	B	INSUL	ALUM.	1	-	H6	S6	J6	-	11	SEE ALT. A4, A6
114.1	ETR.		ETR.			ETR.			ETR.		-	10A	SEE ALT. A5
115.1	ETR.		ETR.			ETR.			ETR.		-	10	SEE ALT. A5
116.1	ETR.		ETR.			ETR.			ETR.		-	10	SEE ALT. A5
117.1	ETR.		ETR.			ETR.			ETR.		-	10	SEE ALT. A5
118.1	ETR.		ETR.			ETR.			ETR.		-	5	SEE ALT. A5
118.2	3'-0"X7'-0" - NOTE 4	FRP	B	INSUL	ALUM.	1	-	H6	S6	J6	-	12	SEE ALT. A4
119.1	3'-0"X7'-0" - NOTE 4	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	13	
120.1	ETR.		ETR.			ETR.			ETR.		-	14	SEE ALT. A5
121.1	ETR.		ETR.			ETR.			ETR.		-	14	SEE ALT. A5
122.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	2A	SEE ALT. A6
122.2	3'-0"X7'-0" - NOTE 4	FRP	B	INSUL	ALUM.	1	-	H6	S6	J6	-	11A	SEE ALT. A4
123.1	ETR.		ETR.			ETR.			ETR.		-	15	SEE ALT. A5
124.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	3	SEE ALT. A2
125.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	5	SEE ALT. A2
126.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	3	SEE ALT. A2
127.1	ETR.		ETR.			ETR.			ETR.		ETR.	9	SEE ALT. A5
128.1	ETR.		ETR.			ETR.			ETR.		-	9	SEE ALT. A5
129.1	ETR.		ETR.			ETR.			ETR.		-	9	SEE ALT. A5
130.1	ETR.		ETR.			ETR.			ETR.		-	9	SEE ALT. A5
200.1	3'-0"X7'-0" - NOTE 4	FRP	B	INSUL	ALUM.	1	-	H3	S3	J3	-	12	SEE ALT. A4
200.2	3'-0"X7'-0" - NOTE 4	WD	D	FIRE	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	B-60	1	SEE ALT. A3
201.1	3'-6"X7'-0"	FRP	C	INSUL.	ALUM.	3	INSUL	H3	S3	J3	-	16	
202.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	17	SEE ALT. A3
203.1	3'-0"X7'-0"	WD	A	-	H.M.	2	TEMP	H1	-	J1	-	18	
204.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1	-	J1	-	20	SEE ALT. A6
205.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3A	
206.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
207.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
208.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
209.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
210.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
211.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1	-	J1	-	19	
212.1	3'-0"X7'-0" - NOTE 4	FRP	B	INSUL	ALUM.	1	-	H6	S6	J6	-	11	SEE ALT. A4, A6
213.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
214.1	3'-0"X7'-0"	WD	A	-	H.M.	2	TEMP	H2	-	J2	-	18A	
214.2	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	20	SEE ALT. A6
215.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1	-	J1	-	2B	SEE ALT. A6
216.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
217.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	5	
218.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H2	-	J2	-	3	
219.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	21	SEE ALT. A3
220.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	21	SEE ALT. A3
221.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	22	SEE ALT. A3
222.1	3'-0"X7'-0"	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	23	
223.1	3'-0"X7'-0" - NOTE 4	WD	A	-	H.M.	1	-	H4 - NOTE 3	-	J4 - NOTE 3	-	19	
224.1	3'-0"X7'-0" - NOTE 1	WD	A	-	H.M.	1	-	H1 - NOTE 3	-	J1 - NOTE 3	-	24	SEE ALT. A3

DOOR AND FRAME NOTES:
1. FIELD VERIFY EXG. R.O. SIZE AND ADJUST NEW DOOR AND FRAME ACCORDINGLY.
2. NOT USED
3. FIELD VERIFY WALL THICKNESS AND ADJUST FRAME THROAT ACCORDINGLY.
4. FIELD VERIFY EXG. R.O. SIZE AND ADJUST NEW DOOR AND FRAME HEIGHT ACCORDINGLY - MAINTAIN 3'-0" DOOR WIDTH.
5. 4 1/2" FRAME THROAT
6. PROVIDE SPECIAL BULLET RESISTANT DOOR ASSEMBLY.
7. PROVIDE SPECIAL ONE-WAY REFLECTIVE MIRROR FILM ON INTERVIEW ROOM SIDE.

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DRAWING TITLE
DOOR SCHEDULE
DOOR/FRAME ELEV. and DETAILS

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
APRIL 2, 2012

SHEET
A5.3

J:\Projects\2011\ME1111-01_Corona_Spring_33011202\Mech-Plumb_Plan.dwg, 4/2/2012, 5:40:11 AM

KEYED PLUMBING DEMOLITION NOTES:

- REMOVE (E) PLUMBING FIXTURE AND ALL ASSOCIATED CW/HW/SAN/V PIPING (CONTRACTOR TO FIELD VERIFY EXISTING LOCATIONS/SIZES). CAP (E) PIPING IF NOT BEING REUSED OR PREPARE (E) PIPING FOR EXTENSION TO NEW REPLACEMENT FIXTURE.
- REMOVE EXISTING (E) 1-1/2" NAT. GAS MAIN DOWNSTREAM OF METER (CONTRACTOR TO FIELD VERIFY SIZE) TO BE INCREASED IN SIZE TO ACCOMMODATE NEW GENERATOR.
- DISCONNECT PLUMBING AND REMOVE EXISTING (E) SINK AND STOCKPILE FOR RELOCATION TO NEW COUNTERTOP (SHIFTING APPROX. 3" TO THE WEST). REFER TO NEW WORK PLANS. COORDINATE WITH CARPENTER TRADES.
- DISCONNECT PLUMBING AND REMOVE EXISTING (E) SINK AND STOCKPILE FOR RELOCATION TO NEW COUNTERTOP (SHIFTING APPROX. 3" TO THE WEST). REFER TO NEW WORK PLANS. COORDINATE WITH CARPENTER TRADES.

KEYED MECHANICAL DEMOLITION NOTES:

- REMOVE EXISTING (E) SUPPLY AIR DIFFUSER (SAD) & RETAIN FOR RELOCATION (R).
- REMOVE (E) EXHAUST FAN AND ASSOCIATED DUCTWORK.
- REMOVE (E) TOE KICK GRILL AND ASSOCIATED DUCTWORK IN (E) CASEWORK BEING REMOVED. STOCKPILE GRILL/DUCTWORK TO BE RELOCATED INTO NEW CASEWORK (SHIFTING APPROX. 3" TO THE WEST) - COORDINATE WITH CARPENTER TRADES.
- REMOVE (E) RETURN AIR GRILL AND ASSOCIATED DUCTWORK PRIOR TO DRYWALL REMOVAL AND STOCKPILE FOR REINSTALL IN NEARBY LOCATION AFTER 2 NEW LAYERS OF DRYWALL ARE INSTALLED. COORDINATE WITH CARPENTER TRADES.
- REMOVE (E) RETURN AIR GRILL AND ASSOCIATED DUCTWORK PRIOR TO WALL REMOVAL AND STOCKPILE FOR REINSTALL IN NEARBY LOCATION AFTER WALL IS RELOCATED. COORDINATE WITH CARPENTER TRADES.
- REMOVE (E) RETURN AIR GRILL AND ASSOCIATED DUCTWORK. PATCH TAKE-OFF/DROP FROM (E) RETURN AIR MAIN DUCT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND ROUGH-IN.

REMOVE EXISTING (E) T-STAT.

REMOVE (E) CENTRAL VACUUM SYSTEM OUTLET AND TUBING BACK TO MAIN - CAP AT MAIN.

GENERAL MECHANICAL & PLUMBING DEMOLITION NOTES:

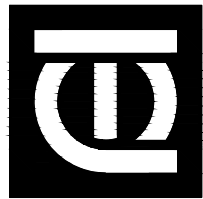
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID - NOTE THAT ALL EXISTING CONDITIONS (I.E. PIPE/DUCT SIZES, ROUTINGS/LOCATIONS, ETC.) SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
- ALL MECHANICAL/PLUMBING ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, HANGERS, SUPPORTS, CONTROLS, ETC. REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE. CAP ALL OPEN ENDED PIPING AND DUCTWORK.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AND/OR CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.
- UNLESS NOTED OTHERWISE, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED SUB-CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.



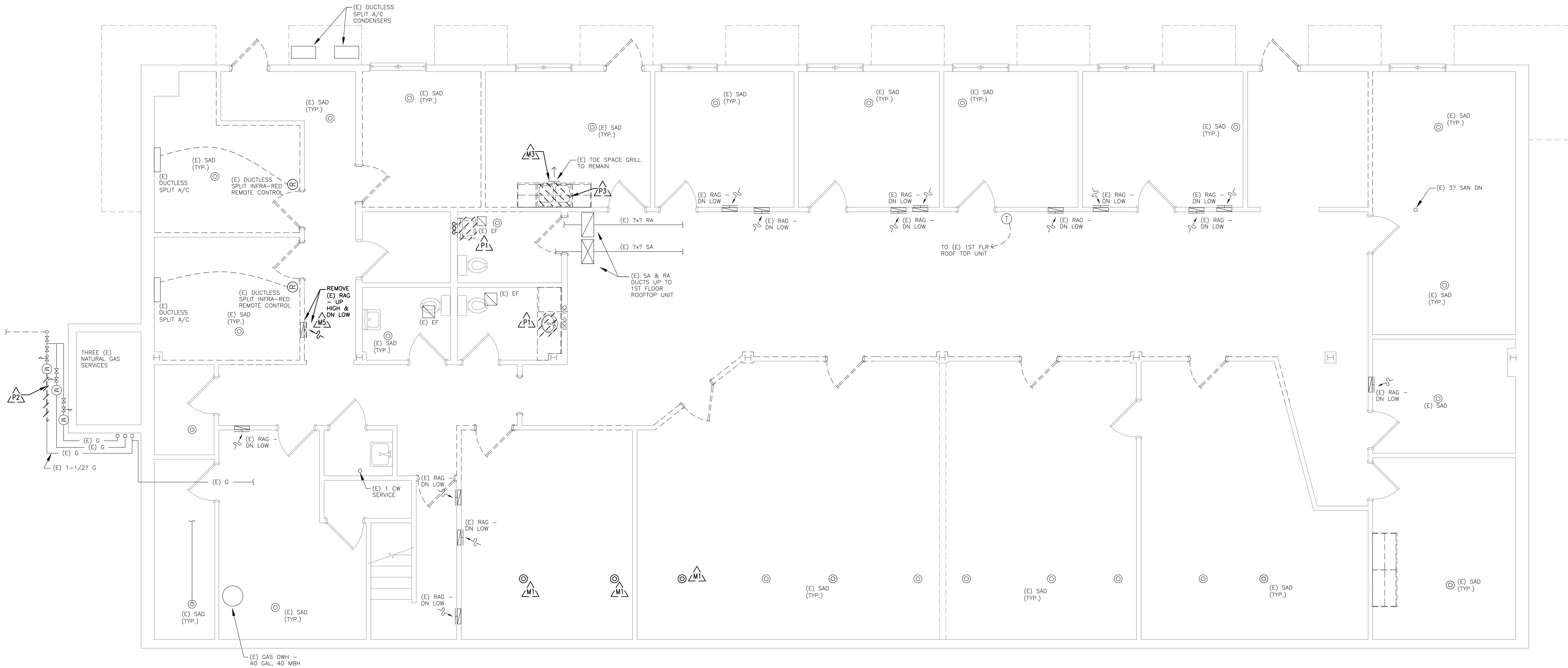
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JLK Engineering
Project Number:
AEA1111-01

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FIRST FLOOR MECHANICAL - DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DRAWING TITLE
**FIRST FLOOR MECHANICAL -
DEMOLITION PLAN**

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
4/2/2012

SHEET
M1.1

GENERAL MECHANICAL & PLUMBING DEMOLITION NOTES:
REFER TO DRAWING M1.1 FOR GENERAL NOTES

anthony p. esson
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M1.2	SHEET	DATE	PROJECT NO.
		4/2/2012	175-11

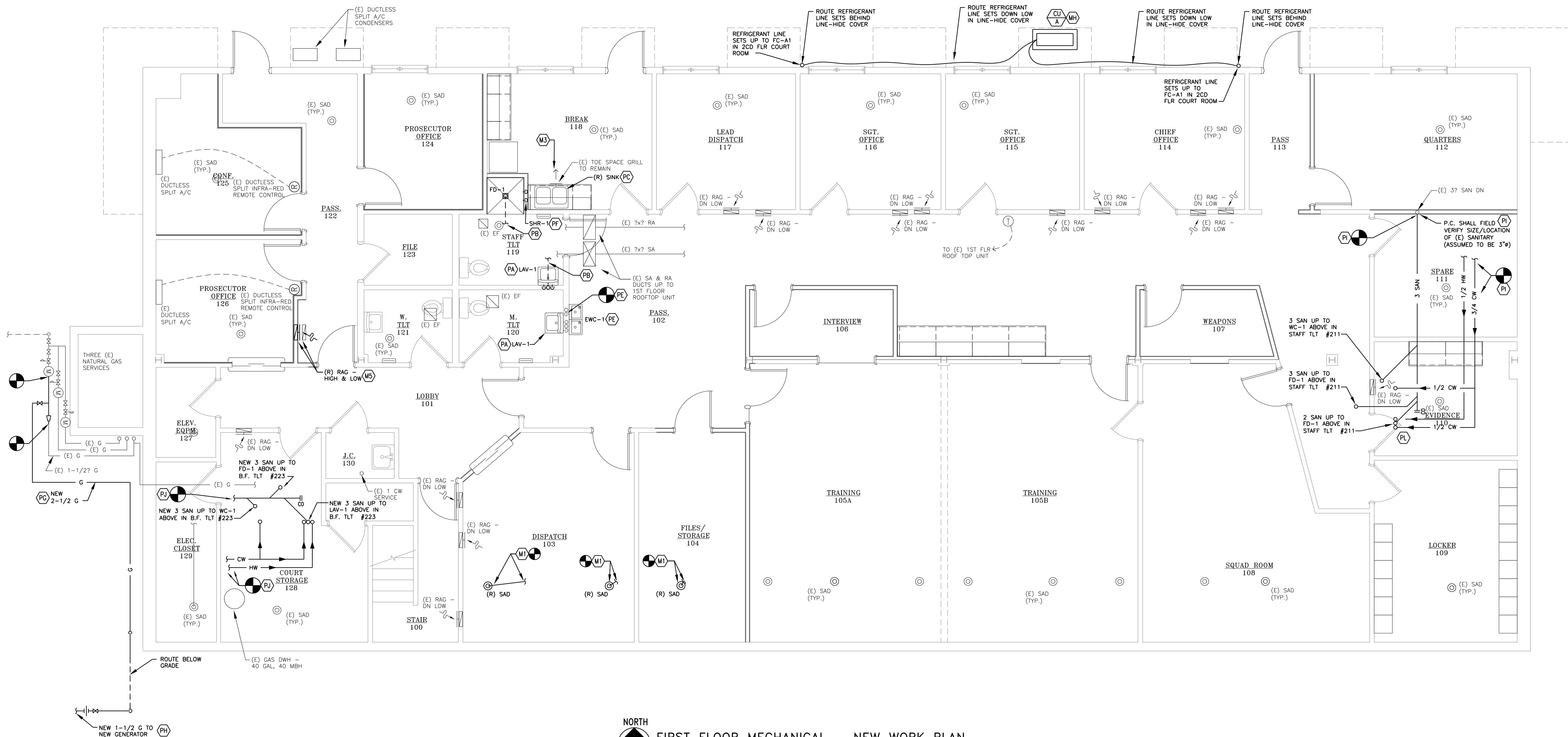
REPLACE NAT. GAS MAIN WITH LARGER PIPE SIZE IN ORDER TO ACCOMMODATE NEW GENERATOR. CONTRACTOR SHALL COORDINATE NEW GAS LOAD WITH GAS UTILITY FOR ANY CHANGES TO SERVICE (REGULATOR, METER, ETC.) THAT MAY BE NECESSARY. UTILITY COSTS BY OWNER.

PL COORDINATE LOCATION OF NEW 1/2 CW, 1/2 HW, 1-1/2
TO/FROM NEW LAV WITH E.C TO AVOID CONFLICT WITH PAN
RECESSED IN WALL BEHIND LAV.

PROVIDE NEW RETURN AIR GRILL IN CEILING AND NEW RA DUCT TAKE-OFF (WITH VOLUME DAMPER) FROM (E) RETURN AIR DUCT MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION AND ROUGH-IN.

 NEW DUCTLESS SPLIT HEAT PUMP SYSTEM CU-A/FC-A1, A2
SHALL BE BID AS ALTERNATE DEDUCT #M1.

11. ALL FLOOR DRAINS SUBJECT TO LOSS OF SEAL (I.E. RESTROOMS, STORAGE ROOMS, ETC.) SHALL BE PROTECTED BY A TRAP SEAL PRIMER.



FIRST FLOOR MECHANICAL – NEW WORK PLAN

SCALE: $1/4" = 1'-0"$

KEYED PLUMBING CONSTRUCTION NOTES:
REFER TO DRAWING M2.1 FOR KEYED NOTES.

KEYED MECHANICAL CONSTRUCTION NOTES:
REFER TO DRAWING M2.1 FOR KEYED NOTES.

GENERAL MECHANICAL & PLUMBING NOTES:
REFER TO DRAWING M2.1 FOR GENERAL NOTES.

JLK ENGINEERING

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JLK Engineering

Project Number:

AEA11111-01

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NORTH
SECOND FLOOR MECHANICAL – NEW WORK PLAN
SCALE: 1/4" = 1'-0"

DRAWING TITLE
SECOND FLOOR MECHANICAL -
NEW WORK PLAN

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
4/2/2012

SHEET
M2.2

MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	G	GAS (NATURAL GAS / PROPANE)	P.C.	PLUMBING CONTRACTOR
APD	AIR PRESSURE DROP	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
BTUH	BRITISH THERMAL UNITS PER HOUR	HB	HOSE BIB	PSIG	POUNDS PER SQUARE INCH - GAUGE
		HP	HORSEPOWER		
C/C	CASED COOLING COIL	HR	HOUR	RAG	RETURN AIR GRILLE OR REGISTER
CFM	CUBIC FEET PER MINUTE	HTG	HEATING	RA	RETURN AIR
CO	CLEAN OUT	HW	DOMESTIC HOT WATER	RC	RAIN CONDUCTOR
COND	CONDENSATE	HWR	DOMESTIC HOT WATER RETURN	RPM	REVOLUTIONS PER MINUTE
CONT.	CONTINUATION OR CONTINUED	HZ	HERTZ	RS	ROOF SUMP
CONTR	CONTRACTOR				
CORD.	COORDINATE	IE	INVERT ELEVATION	SAD	SUPPLY AIR DIFFUSER
CW	DOMESTIC COLD WATER	IN	INCHES	SAG	SUPPLY AIR GRILLE
		IW	INDIRECT WASTE	SA	SUPPLY AIR
DB	DRY BULB TEMPERATURE	KW	KILOWATT	SAN	SANITARY WASTE
DEG	DEGREES	KVA	KILO-VOLT-AMPERE	SHR	SHOWER
DN	DOWN			SP	STATIC PRESSURE
DWH	DOMESTIC WATER HEATER	LAV	LAVATORY	SqFt	SQUARE FOOT/SQUARE FEET
DW&V	DRAINAGE WASTE & VENT			SS	SERVICE SINK
		MAX	MAXIMUM	S.S.	STAINLESS STEEL
(E)	EXISTING	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	ST	STORM WATER
EAG	EXHAUST AIR GRILLE OR REGISTER	M.C.	MECHANICAL CONTRACTOR		
EA	EXHAUST AIR	MCA	MINIMUM CIRCUIT AMPS	TYP	TYPICAL
E.C.	ELECTRICAL CONTRACTOR	MECH	MECHANICAL		
EF	EXHAUST FAN	MFR	MANUFACTURER	UH	UNIT HEATER
ELECT	ELECTRICAL	MIN	MINIMUM	UL	UNDERWRITERS LABORATORY
ESP	EXTERNAL STATIC PRESSURE	MISC	MISCELLANEOUS	UON	UNLESS OTHERWISE NOTED
EXH	EXHAUST	MMBH	MILLION BRITISH THERMAL UNITS PER HOUR	UR	URINAL
		MS	MOP SINK	U/G	UNDERGROUND (BELOW GRADE)
F	FIRE PROTECTION	OA	OUTSIDE AIR	V	VENT
FA	FRESH AIR	ORC	OVERFLOW ROOF CONDUCTOR	VAC	VACUUM
FD	FLOOR DRAIN			VD	VOLUME DAMPER
F.DPR	FIRE DAMPER			VTR	VENT THRU ROOF
FFD	FUNNEL FLOOR DRAIN				
FLA	FULL LOAD AMPS			W	WASTE
FLR	FLOOR			W&V	WASTE AND VENT
FPM	FEET PER MINUTE			WC	WATER CLOSET
FT	FEET			WCO	WALL CLEAN OUT
FUR	FURNACE			WG	WATER GAUGE
				WH	WALL HYDRANT

MECHANICAL SYMBOL LIST

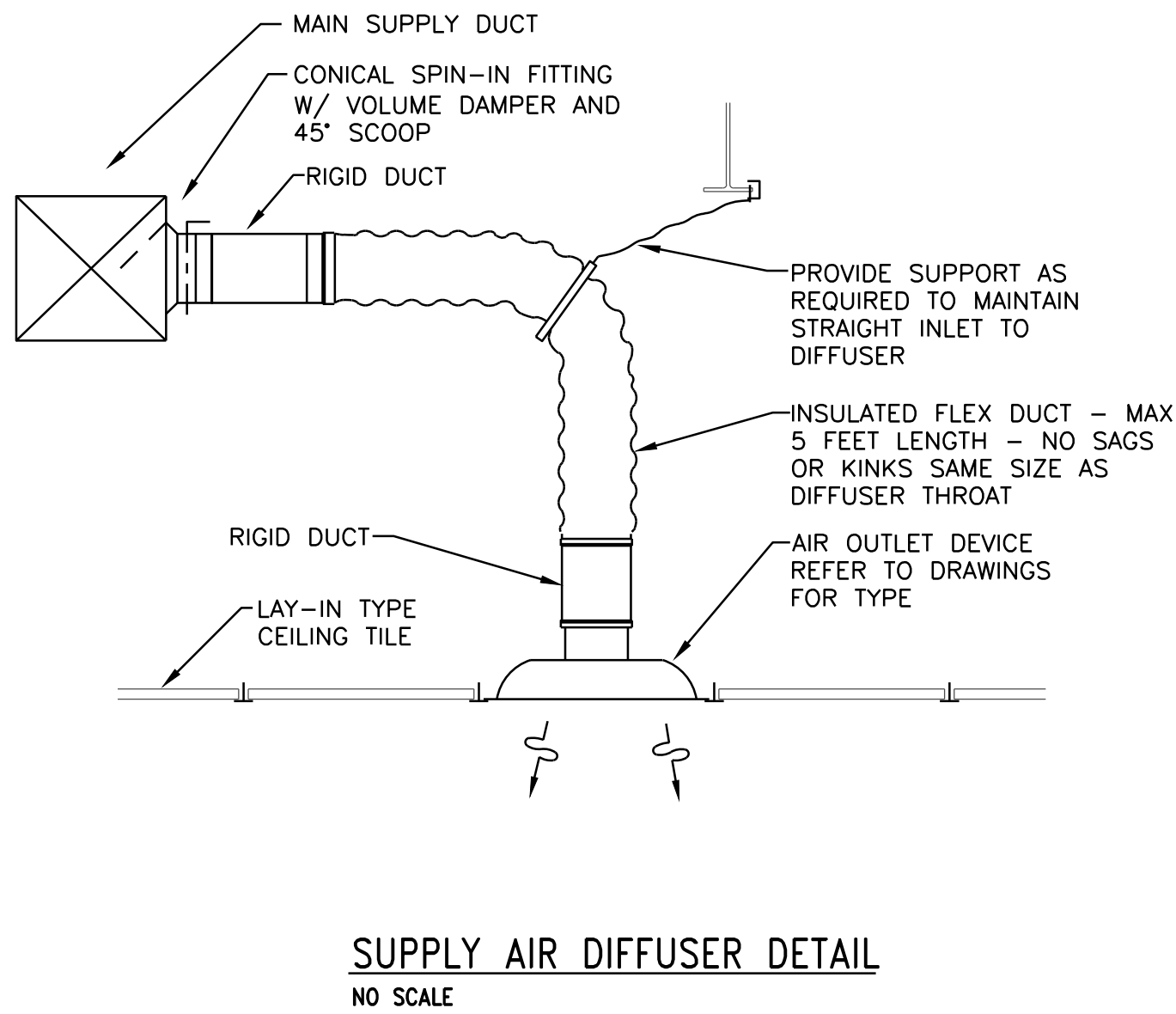
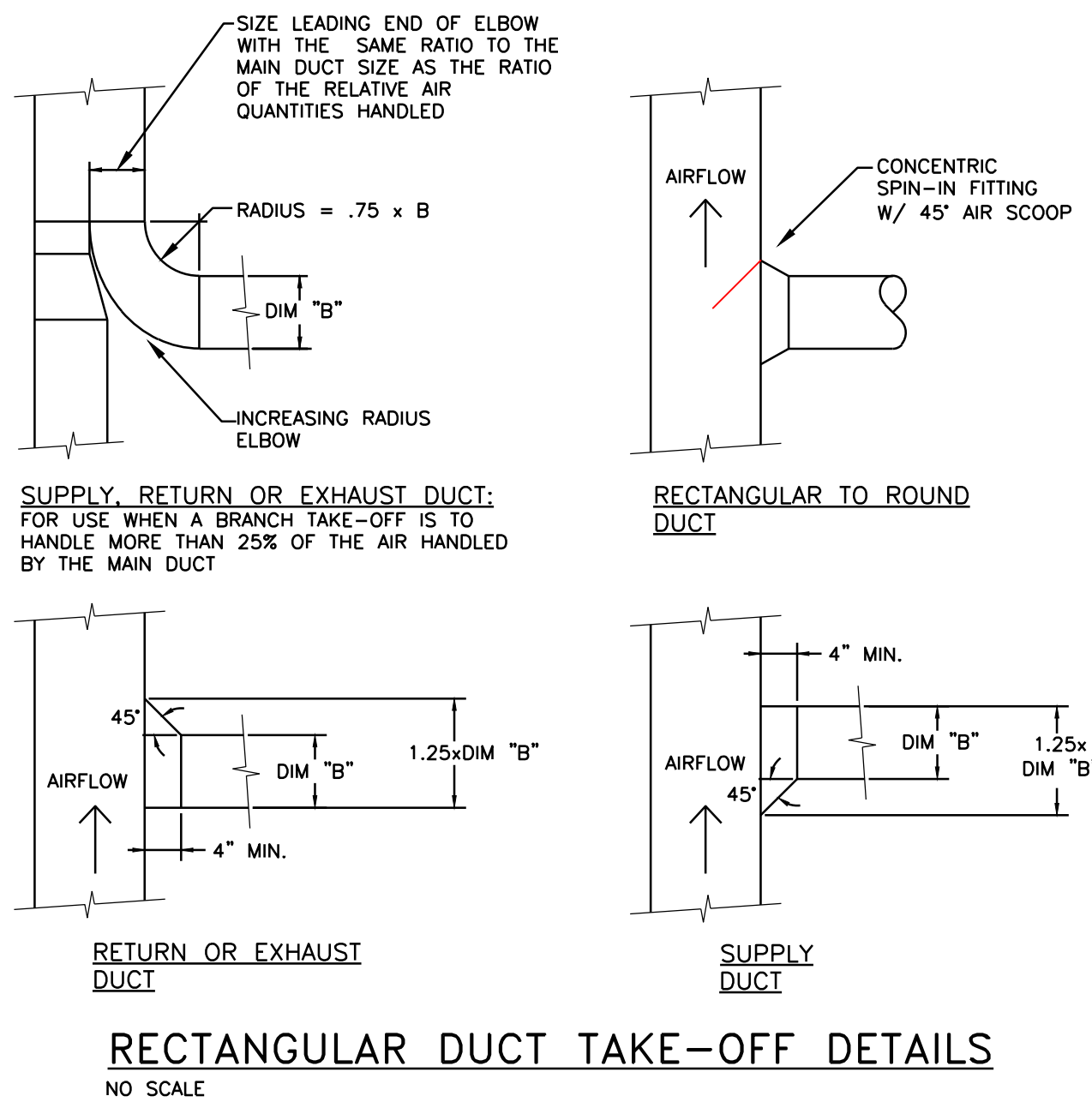
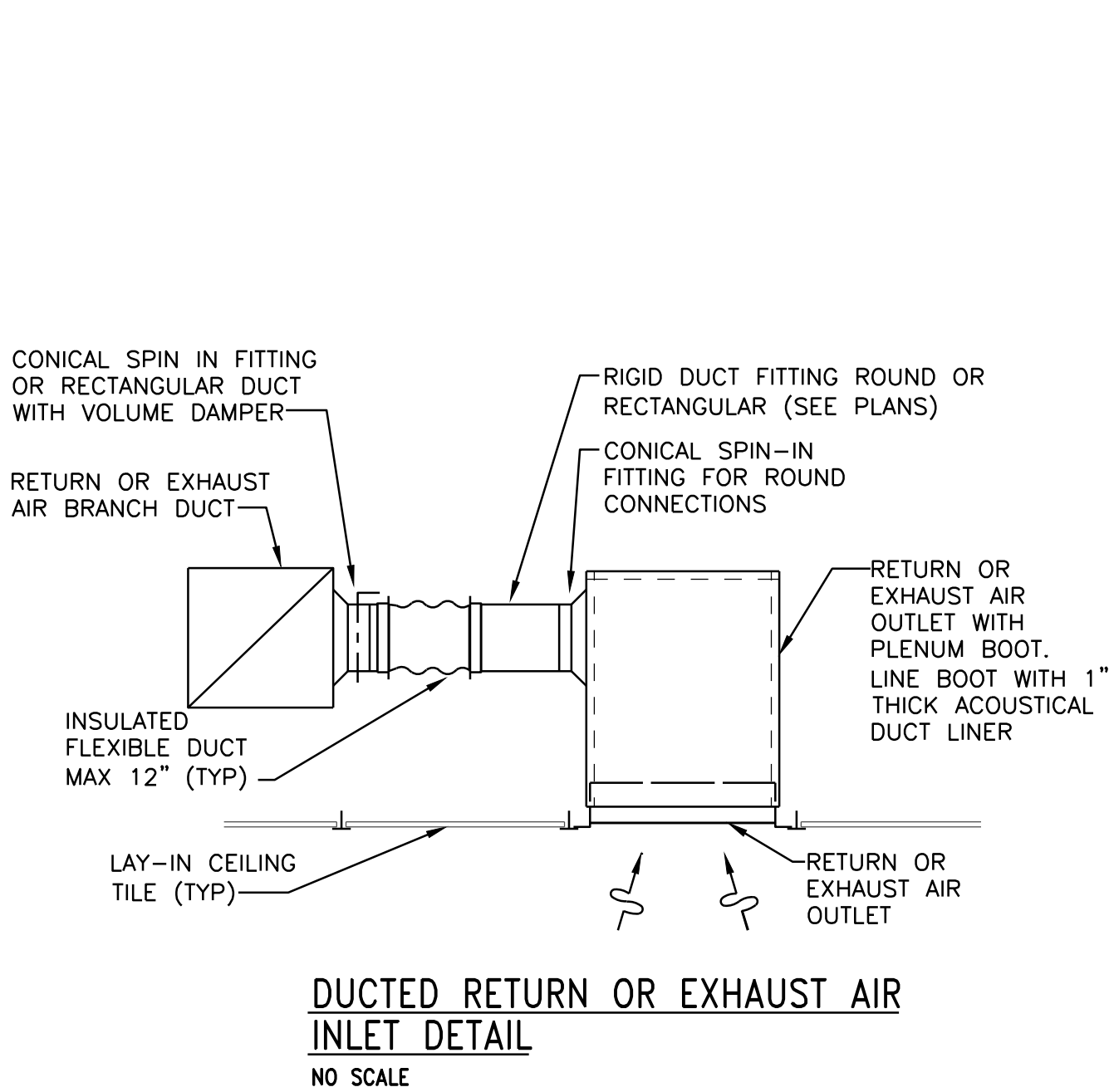
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PIPE ELBOW UP		RECTANGULAR TAKE-OFF (SINGLE LINE)		DOMESTIC COLD WATER PIPING
	PIPE ELBOW DOWN		RECTANGULAR TAKE-OFF (DOUBLE LINE)		DOMESTIC HOT WATER PIPING
	DIRECTION OF FLOW		ROUND TAKE-OFF (SINGLE LINE)		DOMESTIC HOT WATER RETURN PIPING
	UNION		ROUND TAKE-OFF (DOUBLE LINE)		SANITARY WASTE PIPING
	CONCENTRIC REDUCER		SPIN-IN FITTING (WITH VOLUME DAMPER)		STORM SEWER PIPING
	ECCENTRIC REDUCER		RECTANGULAR ELBOW (WITH TURNING VANES)		RAIN CONDUCTOR PIPING
	PIPE CAP OR PLUG		RADIUS RECTANGULAR ELBOW		SANITARY VENT PIPING
	CIRCULATING PUMP		RADIUS ROUND ELBOW		GAS PIPING (NATURAL GAS OR PROPANE)
	ISOLATION VALVE		RECTANGULAR ELBOW UP		NON POTABLE COLD WATER
	GLOBE VALVE		ROUND ELBOW UP		FIRE PROTECTION PIPING
	BALL VALVE		RECTANGULAR ELBOW DOWN		
	BUTTERFLY VALVE		ROUND ELBOW DOWN		
	CHECK VALVE (SWING)		DUCT UP (SINGLE LINE)		
	CHECK VALVE (SPRING)		RECTANGULAR ELBOW DOWN		
	PLUG VALVE		ROUND ELBOW DOWN		
	BALANCE VALVE		DUCT DOWN (SINGLE LINE)		
	COMBO BALANCE VALVE/FLOW MEASURING DEVICE		CONCENTRIC TRANSITION (DOUBLE LINE)		
	STRAINER (Y-TYPE)		CONCENTRIC TRANSITION (SINGLE LINE)		
	STRAINER (BLOW OFF TYPE)		ECCENTRIC TRANSITION (DOUBLE LINE)		
	TRAP (PLAN VIEW)		ECCENTRIC TRANSITION (SINGLE LINE)		
	FLOOR DRAIN (PLAN VIEW)		CROSS SECTION OF SUPPLY AIR DUCT		
	ROOF DRAIN SUMP		CROSS SECTION OF EXHAUST OR RETURN AIR DUCT		
	CLEAN OUT (IN FLOOR)		SQUARE CEILING DIFFUSER		
	CLEAN OUT (IN LINE)		RETURN OR EXHAUST CEILING GRILLE		
	BACKFLOW PREVENTER		TRANSFER GRILLE		
	HOSE BIBB		FIRE DAMPER (HORIZONTAL)		
	WALL HYDRANT		FIRE DAMPER (VERTICAL)		
	PRESSURE RELIEF VALVE		SMOKE DAMPER		
	PRESSURE REDUCING VALVE		COMBINATION FIRE/SMOKE DAMPER (VERTICAL)		
	PRESSURE AND TEMPERATURE RELIEF VALVE		VOLUME DAMPER (MANUALLY ADJUSTABLE)		
	PRESSURE REGULATING VALVE		MOTORIZED DAMPER		
	PRESSURE AND TEMPERATURE TEST PLUG		ROOF VENTILATOR (PLAN VIEW)		
	PRESSURE GAUGE AND COCK				
	THERMOMETER				
	THERMOSTAT				
	TEMPERATURE SENSOR				

METHODS OF NOTATION

S-1 10ø 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG, 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4.
R-1 22x10 640-2	RETURN REGISTER WITH SCHEDULE TAG, 22x10 NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER (E) DESIGNATION SIMILAR.
	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
	CONSTRUCTION KEY NOTE NUMBER
	DEMOLITION KEY NOTE NUMBER
	EXISTING SYSTEM COMPONENT TO BE REMOVED
	NEW SYSTEM COMPONENT
	EXISTING SYSTEM COMPONENT TO REMAIN
	POINT OF NEW CONNECTION.

MECHANICAL DRAWING INDEX

M1.1	FIRST FLOOR MECHANICAL - DEMOLITION PLAN
M1.2	SECOND FLOOR MECHANICAL - DEMOLITION PLAN
M2.1	FIRST FLOOR MECHANICAL - NEW WORK PLAN
M2.2	SECOND FLOOR MECHANICAL - NEW WORK PLAN
M3.1	MECHANICAL DETAILS
M3.2	MECHANICAL DETAILS



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DRAWING TITLE
MECHANICAL DETAILS

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
4/2/2012

SHEET
M3.1

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BID AS
ALTERNATE
DEDUCT #M1

FAN SCHEDULE															
UNIT I.D.	SYSTEM SERVED	TYPE	AIRFLOW CFM	E.S.P. IN. W.G.	RPM	MOTOR				ELECTRICAL		CURB HEIGHT (IN)	WEIGHT LBS	MODEL NO.	REMARKS
						BHP	HP	RPM	DRIVE	VOLTS	PHASE				
EF-1	STAFF TOILET	CEILING MOUNTED EXHAUST	95	0.375	945	80W	FRACT.	950	DIRECT	115	1	-	14	SP-B110	SEE NOTES 1, 2
EF-2	UNISEX TOILET	CEILING MOUNTED EXHAUST	95	0.375	945	80W	FRACT.	950	DIRECT	115	1	-	12	SP-B110	SEE NOTES 1, 3

NOTES:
1. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED. COOK AND PENN MAY BE BID AS EQUAL.
2. PROVIDE THE FOLLOWING OPTIONS/ACCESSORIES: SOLID STATE SPEED CONTROL (MOUNTED AND WIRED EXTERNALLY), CSA LABELED MOTOR, UL-507 - "ELECTRIC FANS", HOODED WALL CAP - ROUND CONNECTION (MODEL WC-6), ALUMINUM GRILLE W/ WHITE ENAMEL FINISH (MODEL 504879), POLYPROPYLENE WHEEL MATERIAL.
3. PROVIDE THE FOLLOWING OPTIONS/ACCESSORIES: SOLID STATE SPEED CONTROL (MOUNTED AND WIRED EXTERNALLY), CSA LABELED MOTOR, UL-507 - "ELECTRIC FANS", ALUMINUM GRILLE W/ WHITE ENAMEL FINISH (MODEL: 504879), POLYPROPYLENE WHEEL MATERIAL.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE								
UNIT I.D.	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NO.	REMARKS
S-1	-	SEE PLANS	-	-	STEEL	WHITE	TMR	ROUND CEILING DIFFUSER
S-2	12x12	SEE PLANS	T-BAR FLUSH NOTE 2	-	STEEL	WHITE	TMSA	SQUARE CEILING DIFFUSER
S-3	NECK SIZE + 1-3/4"	SEE PLANS	EXPOSED SCREW	OPPOSED DAMPER	STEEL	WHITE	300RS	SEE NOTE 4 SUPPLY GRILL DOUBLE DEFLECTION - 3/4" SPACING
R-1	24x24	SEE PLANS	T-BAR FLUSH NOTE 2	-	STEEL	WHITE	PAR	24"x24" PERFORATED RETURN GRILL
R-2	24x12	SEE PLANS	T-BAR FLUSH NOTE 2	-	STEEL	WHITE	PAR	24"x12" PERFORATED RETURN GRILL
R-3	NECK SIZE + 1-3/4"	SEE PLANS	EXPOSED SCREW	-	STEEL	WHITE	355 RL	RETURN GRILL FIXED 45° DEFLECTION - 1/2" SPACING
R-4	NECK SIZE + 2-1/2"	SEE PLANS	SURFACE MOUNT	OPPOSED DAMPER	ALUMINUM	WHITE	50F	EGG CRATE FACE RETURN 1/2" x 1/2" x 1/2" AL GRID CORE
E-1	24x24	SEE PLANS	NOTE 2	-	STEEL	WHITE	PAR	24"x24" PERFORATED EXHAUST GRILL
E-2	24x12	SEE PLANS	NOTE 2	-	STEEL	WHITE	PAR	24"x12" PERFORATED EXHAUST GRILL
E-3	NECK SIZE + 1-3/4"	SEE PLANS	EXPOSED SCREW	-	STEEL	WHITE	355 RL	EXHAUST GRILL FIXED 45° DEFLECTION - 1/2" SPACING

NOTES:
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED. PRICE, NAILOR, CARNES, KRUEGER, TUTLE & BAILEY MAY BE BID AS EQUALS.
2. WHERE LOCATED IN GYPSUM BOARD OR SIMILAR HARD CEILING, PROVIDE TITUS MODEL TRM RAPID MOUNT FRAME TO CREATE LAY-IN FUNCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE AT EACH LOCATION (LAY-IN CEILING VS. HARD CEILING).

MULTI-ZONE DUCTLESS HEAT PUMP UNIT SCHEDULE (R-410A)																	
FAN COIL UNIT ID	COOLING (BTU/HR)	HEATING (BTU/HR)	SOUND dB (A)	INDOOR FAN COIL UNIT						OUTDOOR CONDENSING SECTION						REMARKS	
				AIRFLOW CFM	VOLTS/ PHASE	FAN UNIT MCA	FAN UNIT MAX FUSE	MODEL NO.	WEIGHT LBS	UNIT I.D.	VOLTS	PHASE	UNIT MCA	MAX FUSE	MODEL NO.		WEIGHT LBS
	28,400	28,600	49							CU-A	208	1	15A	20A	MXZ-3A30NA	150	MINI-SPLIT CU-A SERVES COILS FC-A1, A2
FC-A1	13,000	13,000	45	340	208	1	15	MSZ-A15NA	23								
FC-A2	13,000	13,000	45	340	208	1	15	MSZ-A15NA	23								

NOTES:
1. MODEL NUMBERS ARE MITSUBISHI "MR. SLIM". OR EQUAL BY DAIKEN, FUJITSU.
2. ROUTE REFRIGERANT LINES TO/FROM INDOOR FAN COIL UNIT, INSIDE NEW WALL, DOWN EXTERIOR WALL TO GRADE MOUNTED CONDENSING UNIT (COORDINATE ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN). COVER ANY EXPOSED REFRIGERANT LINES WITH "LINE HIDE" LINESET COVER SYSTEM IN COLOR TO MATCH EXISTING EXTERIOR OF BUILDING.
3. MOUNT CONDENSING UNIT ON OPTIONAL DIAMOND BACK PLATFORM AND OPTIONAL FIBERGLASS PAD (#ULTRILITE1).
34 TRAP/DRAIN CONDENSATE FROM FAN COIL UNIT VIA TUBING TO SANITARY SYSTEM OR TO SPLASH BLOCK ON GRADE.
5. PROVIDE OPTIONAL WALL MOUNTED/HARDWIRED PROGRAMMABLE T-STAT (#PAR-21MAA-6) AND CONTACT TERMINAL INTERFACE (#MAC-3971F-E) FOR EACH INDOOR FAN COIL UNIT.
6. PROVIDE OPTIONAL LOW AMBIENT HEAD PRESSURE CONTROLLER (#1CM-326HM-1).
7. PROVIDE OPTIONAL 3-POLE DISCONNECT (#TAZ-MS303) FOR EACH INDOOR FAN COIL.

PLUMBING FIXTURE SCHEDULE

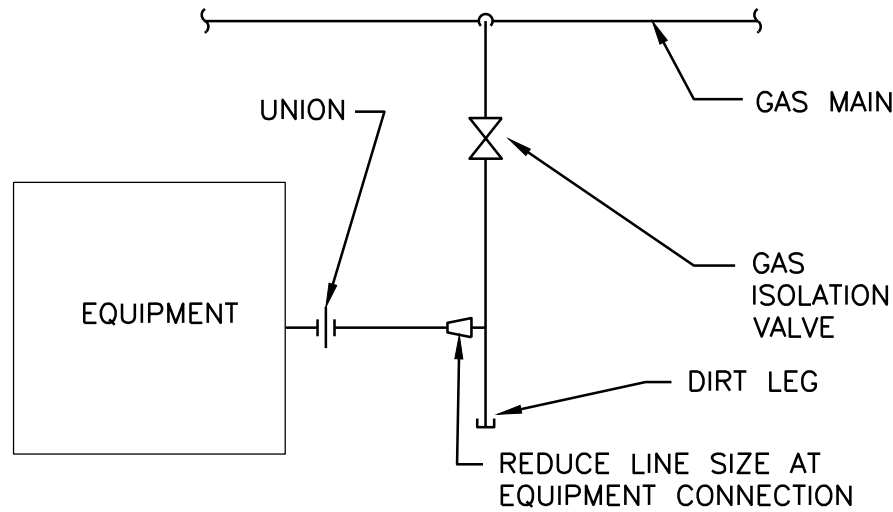
FIXTURE MARK	MANUFACTURER SERIES NUMBER	FIXTURE AND TRIM DESCRIPTION					ACCESSORIES, FEATURES, AND NOTES	
WATER CLOSETS AND URINALS								
		BOWL TYPE	OUTLET	FLUSH VALVE	SEAT	CARRIER		
WC-1	KOHLER "WELLWORTH" K-3481-U BARRIER FREE	FLOOR MOUNT ELONGATED - FLUSH TANK	BOTTOM	- - 1.6 GPM/FLUSH	OLSONITE #95	N/A	WHITE COLOR. SEAT SHALL BE ANTIMICROBIAL PLASTIC OPEN-FRONT SEAT.	
LAVATORIES								
		BOWL TYPE	FAUCET	SUPPLY PIPE	TRAP	TAIL-PIECE		
LAV-1	KOHLER "GREENWICH K-2032" BARRIER FREE	WHITE VITREOUS CHINA WALL HUNG W/ CONCEALED ARM SUPPORTS	ADA APPROVED CHROME PLATED	ANGLE SCREW- DRIVER STOPS	1 1/2" CHROME PLATED	1 1/2" CHROME PLATED ADA COMPLIANT	TRIM: KOHLER "CORALAIS" #K-15582-F SINGLE LEVER FAUCET WITH 4-1/2" VANDEL RESISTANT LEVER. PROVIDE GRID STRAINER DRAIN.	
SHOWERS								
		SHOWER TYPE	SHOWER VALVE	SHOWER HEAD/ SPRAY PACKAGE				
SHR-1	BRADLEY HN 200 MODEL# HN 200-6-HD-SF-ST "DBS, OCR, DOB" - DEDUCT SEAT, DEDUCT CURTAIN, DEDUCT GRAB BARS	STAINLESS STEEL RECESSED WALL MOUNTED SHOWER SUPPLY MODULE	PRESSURE BALANCED - ASSE 1016 CERTIFIED BRADLEY "EQUA-FLO HD"	DELUX SHOWERHEAD ADJUSTABLE SPRAY HEAD & HAND-HELD SHOWER SPRAY WITH 60" FLEXIBLE S.S. HOSE		ADA COMPLIANT PRE-ASSEMBLED WALL SHOWER UNIT W/ ASSE 1016 LISTED PRESSURE BALANCE SHOWER VALVE. PROVIDE FOLLOWING OPTIONS: DELUX SHOWERHEAD WITH BALL JOINT, STOPS ON SUPPLIES. DEDUCT SEAT, CURTAIN, GRAB BARS (BEING PROVIDED BY OTHERS).		
ELECTRIC WATER COOLERS								
		CAPACITY	DRAIN	CONDENSER	FINISH	ELECTRICAL		
EW-1	WALL MOUNTED TWO LEVEL ELKAY MODEL "EZSTLBC" BARRIER FREE	8.0 GPM	(2) - 1 1/4"	INTEGRAL	STAINLESS STEEL	3.7 FLA AT 115V/1ø	PROVIDE 50°F OUTLET WATER AT 80°F INLET AND 90°F ROOM TEMP. PROVIDE/INSTALL OPTIONAL APRON	

NOTES:
1. ALL PLUMBING FIXTURES, EQUIPMENT, TRIM AND FITTINGS SHALL COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO, WATER AND ENERGY CONSERVATION CODES, ADA REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS OF FIXTURES AND TRIM.
3. PROVIDE/INSTALL POINT OF USE "ASSE 1070 LISTED" THERMOSTATIC MIXING VALVES ON SUPPLIES TO ALL ADA ACCESSIBLE LAVATORIES AND SINKS.
4. INSTALL "LAV-SHIELDS" ON WALL MOUNTED LAVS/SINKS TO COMPLETELY CONCEAL EXPOSED TRAPS, SUPPLIES, AND MIXING VALVES.
5. INSTALL "LAV GUARDS" ON DRAIN/SUPPLY PIPING BELOW COUNTER MOUNTED LAVS/SINKS TO COVER TRAPS, SUPPLIES, AND MIXING VALVES.
6. COORDINATE ALL FIXTURE FINISHES/COLORS WITH ARCHITECT PRIOR TO ORDERING.
7. FLUSH VALVE HANDLES ARE TO BE LOCATED ON OPEN SIDE OF BARRIER FREE WATER CLOSETS - REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.

PLUMBING CONNECTION SCHEDULE

FIXTURE TYPE	HOT WATER	COLD WATER	WASTE	TRAP	VENT
WATER CLOSET (FLUSH TANK)	--	1/2"	4"	--	2"
URINAL (FLUSH VALVE)	--	3/4"	2"	--	1-1/2"
LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"
SINK	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"
SERVICE/MOP SINK	1/2"	1/2"	3"	3"	3"
ELECTRIC WATER COOLER	--	1/2"	1-1/4"	1-1/4"	1-1/4"
SHOWER	1/2"	1/2"	3"	--	1-1/2"
HOSE BIB	3/4"	3/4"	--	--	--
WALL HYDRANT	--	3/4"	--	--	--

NOTES:
1. REFER TO DRAWINGS AND SPECIFICATIONS FOR MORE DETAILS.



TYPICAL GAS CONNECTION
AT EQUIPMENT PIPING DETAIL
NO SCALE

DRAWING TITLE

MECHANICAL DETAILS

PROJECT TITLE

PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:

LTBB ODAWA INDIANS

PETOSKEY, MICHIGAN

PROJECT NO.

175-11

DATE

4/2/2012

SHEET

M3.2

JLK Engineering
Project Number:
AEA1111-01

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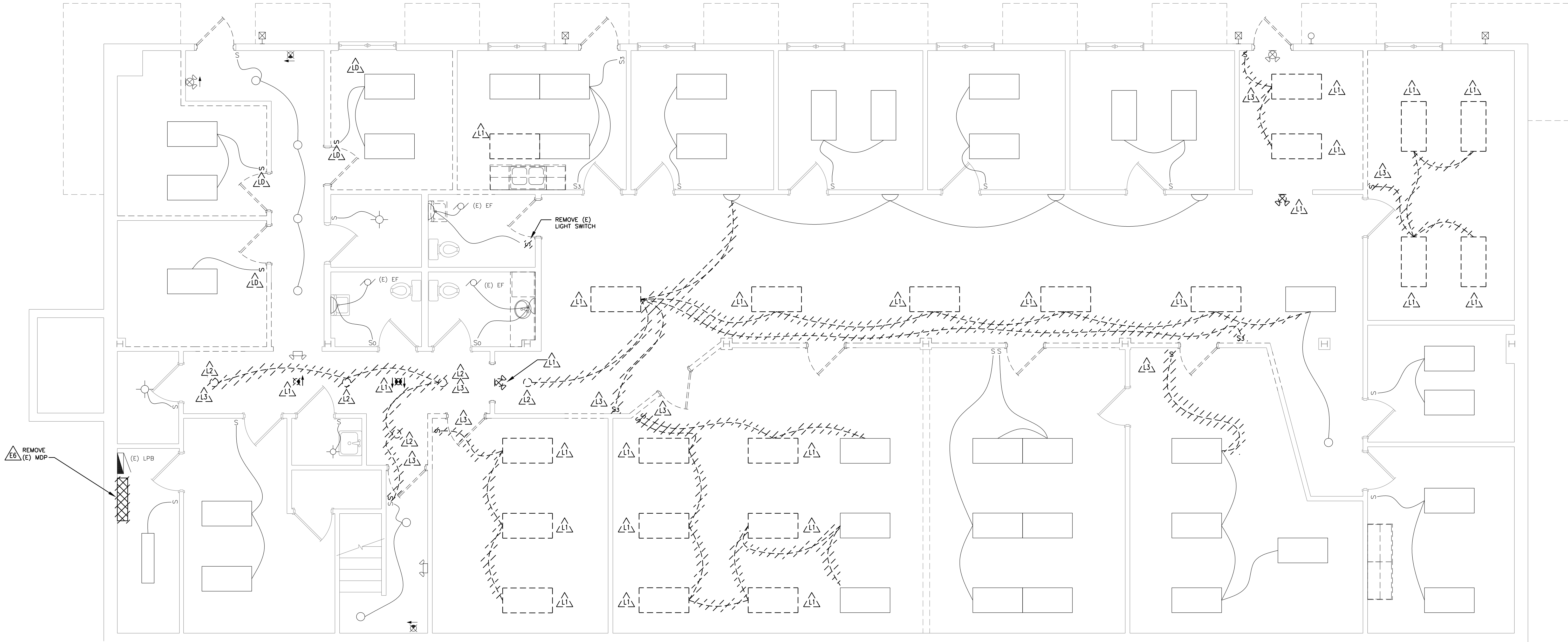


KEYED ELECTRICAL LIGHTING DEMOLITION NOTES:

- △L1 REMOVE EXISTING (E) LIGHT FIXTURES AND SALVAGE FOR REUSE – REFER TO NEW WORK PLANS FOR RELOCATION.
- △L2 REMOVE EXISTING (E) LIGHTING FIXTURE AND DISPOSE OF PROPERLY.
- △L3 REMOVE EXISTING (E) LIGHTING SYSTEMS (I.E. SWITCHES, CKTS, ETC.) AS REQUIRED TO ACCOMMODATE RENOVATIONS.
- △L0 REMOVE WALL MOUNTED DEVICE (I.E. LIGHT SWITCHES, RECEPTACLES, TELECOM, ETC.) AND COVER PLATES. IN AREAS WHERE DRYWALL IS BEING REMOVED AND REPLACE – RETAIN DEVICES/PLATES FOR REINSTALLATION.

GENERAL ELECTRICAL DEMOLITION NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID. ALL EXISTING PANEL/WIRE/LIGHT SIZES AND ROUTINGS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.
- ALL ELECTRICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, WIRES, CONDUITS, SUPPORTS, FIXTURES, LAMPS, ETC. REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.
- EACH SUBCONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY/ALL CEILING TILES AND/OR GRID ASSOCIATED WITH THEIR WORK. THE RESPONSIBLE CONTRACTOR SHALL REPLACE/REPAIR ALL CEILING TILES AND/OR GRID DAMAGED DURING THE CONSTRUCTION WITH NEW CEILING TILES.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.



FIRST FLOOR LIGHTING – DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

JLK Engineering
Project Number:
AEA1111-01

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DRAWING TITLE
FIRST FLOOR LIGHTING -
DEMOLITION PLAN

PROJECT TITLE
PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN


PROJECT NO.
175-11

DATE
4/2/2012

SHEET
E1.1

KEYED ELECTRICAL LIGHTING DEMOLITION NOTES:
REFER TO DRAWING E1.1 FOR KEYED NOTES.

GENERAL ELECTRICAL DEMOLITION NOTES:
REFER TO DRAWING E1.1 FOR GENERAL ELECTRICAL DEMOLITION NOTES.



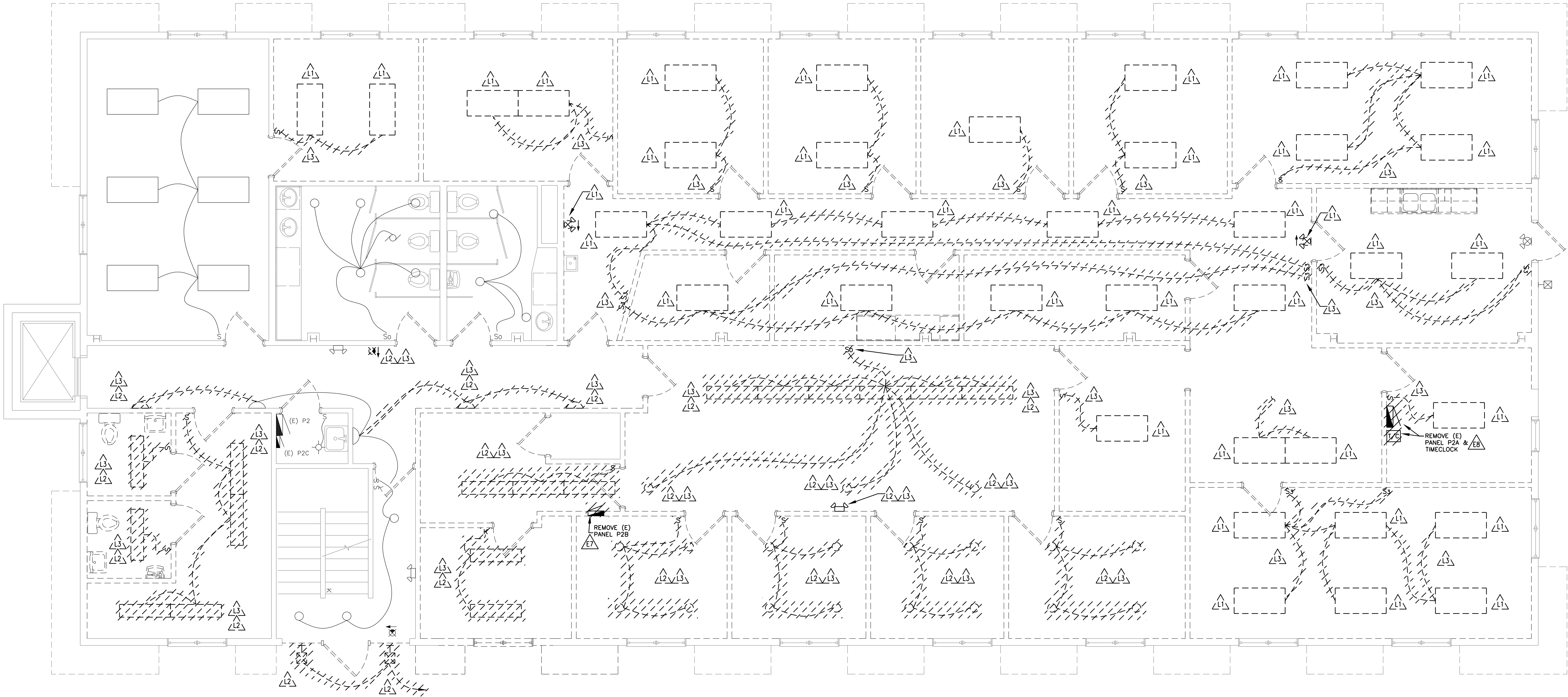
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 NORTH
SECOND FLOOR LIGHTING – DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

SHEET	DATE	PROJECT NO.	PROJECT TITLE	DRAWING TITLE
E1.2	4/2/2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	SECOND FLOOR LIGHTING - DEMOLITION PLAN

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KEYED ELECTRICAL POWER DEMOLITION NOTES:

- E1** REMOVE (E) ELECTRICAL SYSTEMS (I.E. RECEPTACLES, DISCONNECTS, ETC.) AS REQUIRED TO ACCOMMODATE REMOVAL OF (E) MDP AND REPLACEMENT WITH NEW/LARGER MDP. CONTRACTOR TO FIELD VERIFY (E) SYSTEMS AND REQUIREMENTS PRIOR TO BID.

E2 REMOVE (E) POWER DISTRIBUTION SYSTEMS (I.E. RECEPTACLES, CKTS, ETC.) AS REQUIRED TO ACCOMMODATE RENOVATIONS.

E3 REMOVE (E) TELECOM SYSTEMS (I.E. OUTLETS, CABLE, ETC.) AS REQUIRED TO ACCOMMODATE RENOVATIONS. NOTE THAT (E) TELECOM SYSTEM MUST STAY IN SERVICE FOR 3RD FLOOR UNTIL NEW TELECOM SYSTEM IS INSTALLED. COORDINATE WITH OWNER'S TELECOM CONSULTANT/CONTRACTOR PRIOR TO DEMO.

E4 REMOVE (E) SECURITY SYSTEM EQUIPMENT AND TURN OVER TO OWNER FOR RE-USE. PULL BACK (E) CABLING FOR RE-USE COORDINATE WITH OWNER'S SECURITY CONSULTANT/CONTRACTOR PRIOR TO DEMO.

E5 REMOVE (E) POWER TO (E) ACC-1 BACK TO (E) PANEL P2B. RETAIN (E) DISCONNECT FOR RELOCATION.

E6 REMOVE (E) MDP, (E) 3RD FLOOR HVAC DISC., AND (E) ELEVATOR DISC., TO BE RE-FED FROM NEW BREAKERS IN NEW MDP. REFER TO 1-LINE DIAGRAM.

E7 REMOVE (E) PANEL P2B, FEEDER BACK TO (E) PANEL P2, AND 100A/3P BRK IN (E) PANEL P2. NEW PANEL P2B SHALL BE RE-FED FROM NEW MDP - REFER TO 1-LINE DIAGRAM. SIX (6) EXISTING 20A/1P BKRS/CKTS CURRENTLY FED BY (E) PANEL P2B SHALL BE RE-FED FROM NEW PANEL P2B.

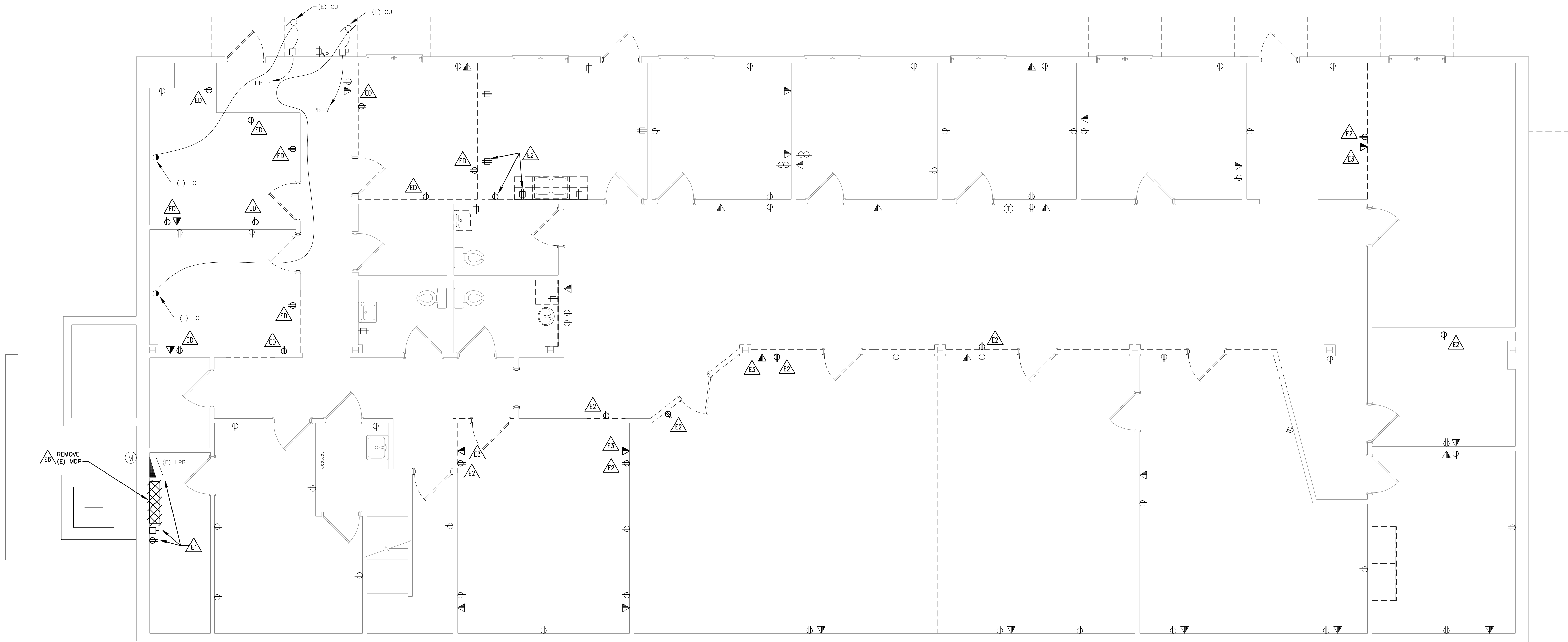
E8 REMOVE (E) PANEL P2A AND TIMECLOCK - RETAIN TO BE RELOCATED. DISCONNECT (E) CKTS AND PREPARE TO EXTEND THEM TO NEW PANEL P2A & TIMECLOCK LOCATION. REFER TO NEW WORK PLAN AND 1-LINE DIAGRAM.

E9 REMOVE (E) FEEDER FOR (E) ELEC. FURNACE FUR-1 BACK TO (E) PANEL P2 AND REMOVE (E) 100A/3P BRK FROM (E) PANEL P2.

ED REMOVE ELEC. DEVICES (I.E. LIGHT SWITCHES, RECEPTACLES, TELECOM, ETC.) AND COVER PLATES, IN AREAS WHERE DRYWALL IS BEING REMOVED AND REPLACED - RETAIN DEVICES/PLATES FOR REINSTALLATION AFTER DRYWALL WORK IS COMPLETE.

GENERAL ELECTRICAL DEMOLITION NOTES:


- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID. ALL EXISTING PANEL/WIRE/LIGHT SIZES AND ROUTINGS SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED.
- ALL ELECTRICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, WIRES, CONDUITS, SUPPORTS, FIXTURES, LAMPS, ETC. REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES/CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS. NOTE THAT POWER FOR THE 3RD FLOOR HVAC UNIT, 3RD FLOOR LIGHTING PANEL, AND THE BUILDING'S IT TELECOM SYSTEMS SHALL BE MAINTAINED THROUGHOUT WORKING HOURS DURING THE PROJECT.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.
- EACH SUBCONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY/ALL CEILING TILES AND/OR GRID ASSOCIATED WITH THEIR WORK. THE RESPONSIBLE CONTRACTOR SHALL REPLACE/REPAIR ALL CEILING TILES AND/OR GRID DAMAGED DURING THE CONSTRUCTION WITH NEW CEILING TILES.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.



FIRST FLOOR POWER - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

JLK Engineering
Project Number:
AEA1111-01

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DRAWING TITLE

FIRST FLOOR POWER -
DEMOLITION PLAN

PROJECT TITLE

PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.

175-11

DATE

4/2/2012

SHEET


E2.1

GENERAL ELECTRICAL DEMOLITION NOTES:

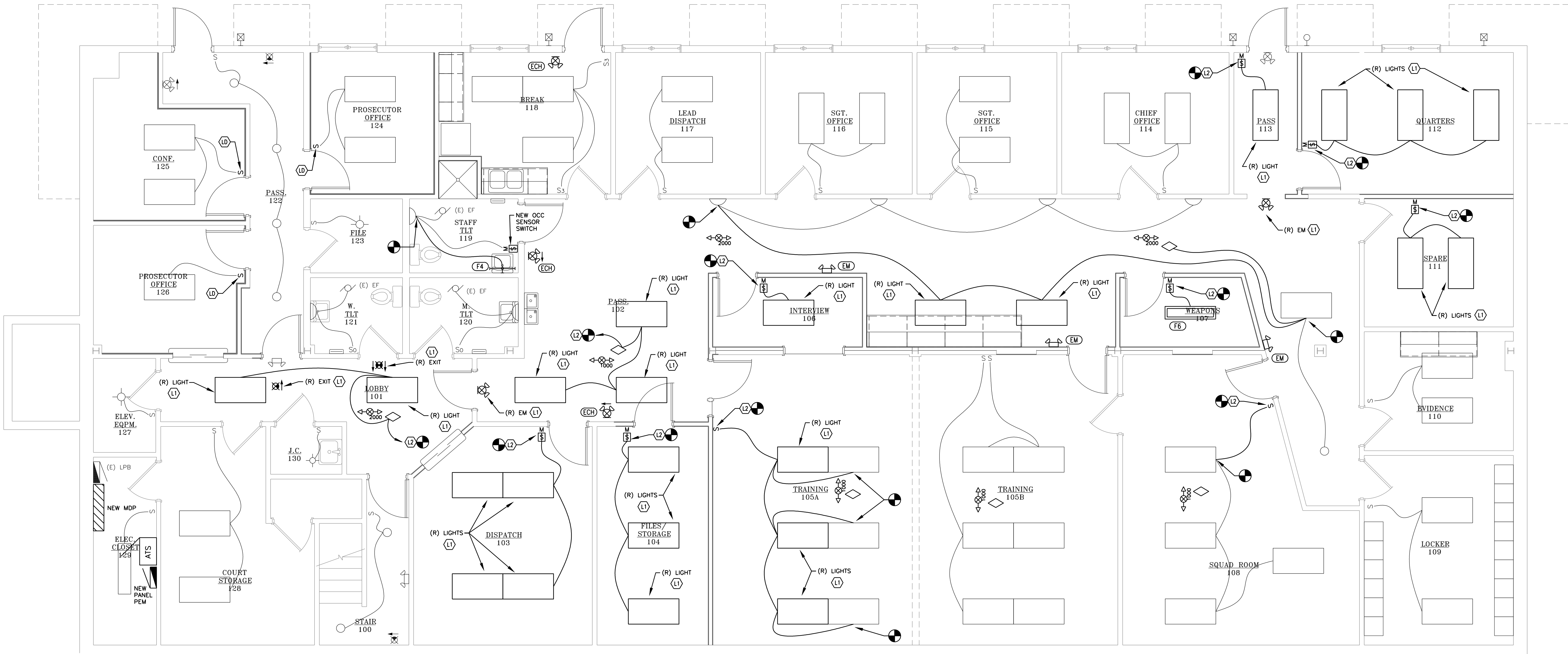
REFER TO DRAWING E2.1 FOR GENERAL ELECTRICAL DEMOLITION NOTES

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SHEET E2.2	DATE	PROJECT NO.	PROJECT TITLE	DRAWING TITLE
	4/2/2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	SECOND FLOOR POWER - DEMOLITION PLAN
 ANTHONY P. ESSON ARCHITECT PO BOX 479 GAYLORD, MICHIGAN 49734 TELEPHONE: (989) 732-0585				

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KEYED ELECTRICAL LIGHTING CONSTRUCTION NOTES:

- (L1) REINSTALL RELOCATED (R) LIGHT FIXTURE.
- UNLESS NOTED OTHERWISE, FEED NEW ELECTRICAL DEVICES (I.E. RECEPTACLES, SWITCHES, ETC.) FROM NEARBY EXISTING CIRCUITS CURRENTLY FED FROM (E) PANELS. CONTRACTOR TO FIELD VERIFY CONDITIONS (I.E. LOCATIONS, BKR/WIRE SIZE, LOADING - QUANTITY OF DEVICES, ETC.) OF (E) CIRCUITS PRIOR TO ROUGH-IN AND CIRCUITING UP NEW DEVICES. DO NOT OVERLOAD (E) CIRCUITS.
- (L2) REINSTALL ELECTRICAL DEVICES (I.E. LIGHT SWITCHES, RECEPTACLES, TELECOM DEVICES, ETC.) IN (E) BOXES. PROVIDE BOX EXTENSIONS AS REQUIRED TO ACCOMMODATE NEW LAYERS OF DRYWALL. REINSTALL COVER PLATES.

GENERAL ELECTRICAL LIGHTING NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS (I.E. CONDUIT, WIRE, PULL BOXES, FIXTURES, ETC.) REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. ALL LIGHTING SYSTEMS SHALL BE PROVIDED/INSTALLED TO MEET APPLICABLE BUILDING CODES: MICHIGAN BUILDING CODE, MICHIGAN ELECTRICAL CODE, N.E.C., LIFE SAFETY CODE NFPA 101, MICHIGAN ENERGY CODE, ETC.
3. COORDINATE EXACT FIXTURE LOCATIONS WITH ARCHITECTURAL PLANS (REFLECTED CEILING PLANS, BUILDING ELEVATIONS ETC.).
4. ALL NIGHT LIGHTS, EMERGENCY LIGHTS, AND EXIT LIGHTS SHALL BE CIRCUITED TO UNSWITCHED/HOT LEG OF THE GENERAL LIGHTING CIRCUIT OF THE AREA SERVED BY THE NIGHT/EMERGENCY/EXIT LIGHTS.
5. CONTRACTOR SHALL INSTALL ALL MISCELLANEOUS STEEL, STRUT, ETC. REQUIRED TO SUPPORT/HANG FIXTURES. COORDINATE ATTACHMENTS WITH STRUCTURAL TRADES.
6. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ELECTRICAL WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY ALL MECHANICAL AND ELECTRICAL CLEARANCES PRIOR TO FABRICATION OF ANY NEW WORK. ELECTRICAL EQUIPMENT, WIRING, ETC. SHALL NOT INTERFERE WITH MECHANICAL EQUIPMENT CLEARANCE SPACES.
7. ALL CIRCUITS FOR POWER, LIGHTING, ETC. SHALL BE IN CONDUIT AS SPECIFIED. ALL CIRCUITS SHALL BE CONCEALED IN WALLS, INCLUDING (E) WALLS. SURFACE MOUNTED RACEWAY SHALL NOT BE USED, UNLESS NOTED OTHERWISE, OR UNLESS ABSOLUTELY NECESSARY. APPROVAL FROM ARCHITECT/OWNER MUST BE OBTAINED PRIOR TO USING SURFACE MOUNTED RACEWAY.
8. UNLESS NOTED OTHERWISE, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.
9. PENETRATIONS THRU EXISTING STAIR ENCLOSURES ARE PROHIBITED.
10. CONTRACTOR SHALL SUPPORT ANY (E) NONMETALLIC SHEATHED CABLES (I.E. ROMEX) THAT ARE NOT ADEQUATELY SUPPORTED IN ACCORDANCE WITH N.E.C. THIS APPLIES TO THE ENTIRE BUILDING (INCLUDING ABOVE EXISTING ACCESSIBLE DROPPED CEILINGS). CONTRACTOR SHALL LEAVE ALL (NEW AND EXISTING) CEILING TILES OPEN FOR INSPECTION BY OWNER'S ELECTRICAL INSPECTOR. NOTE THAT ROMEX WILL NOT BE ALLOWED FOR ANY NEW CIRCUITS.

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DRAWING TITLE
**FIRST FLOOR LIGHTING -
NEW WORK PLAN**

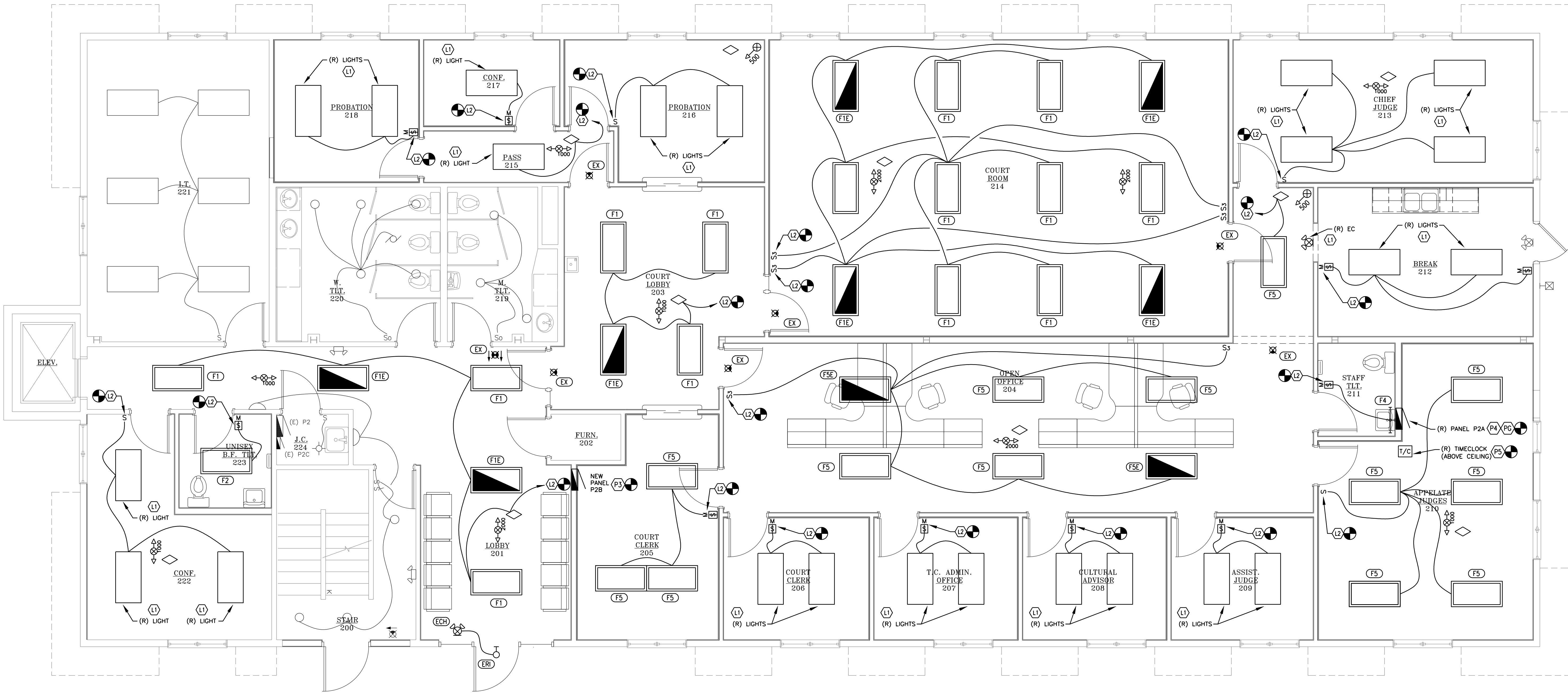
PROJECT TITLE
**PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS**
PETOSKEY, MICHIGAN

PROJECT NO.
175-11

DATE
4/2/2012

SHEET
E3.1

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SECOND FLOOR LIGHTING - NEW WORK PLAN

SCALE: 1/4" = 1'-0"

KEYED ELECTRICAL LIGHTING CONSTRUCTION NOTES:

REFER TO DRAWING E3.1 FOR KEYED NOTES.

GENERAL ELECTRICAL LIGHTING NOTES:

REFER TO DRAWING E3.1 FOR GENERAL ELECTRICAL LIGHTING NOTES.

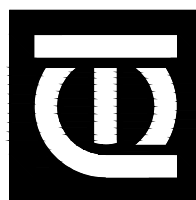


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DRAWING TITLE

SECOND FLOOR LIGHTING -
NEW WORK PLAN

PROJECT TITLE

PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
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PETOSKEY, MICHIGAN

PROJECT NO.

175-11

DATE

4/2/2012

SHEET

E3.2

(P1)	NEW RECEPT FOR (R) REFRIGERATOR. EXTEND (E) CKT FROM OLD REFRIGERATOR RECEPT LOCATION.
(P2)	UNLESS NOTED OTHERWISE, FEED NEW ELECTRICAL DEVICES (E, RECEPTACLES, SWITCHES, ETC) FROM NEARBY EXISTING CIRCUITS CURRENTLY FED FROM (E) PANELS. CIRCUTS TO FEED NEW DEVICES (E) LOCATIONS, BKR/WIRE SIZE, LOADING - QUANTITY OF DEVICES, ETC.) OF (E) CIRCUITS PRIOR TO ROUGH-IN AND CIRCUITING UP NEW DEVICES. DO NOT OVERLOAD (E) CIRCUITS.
(P3)	NEW PANEL P2A RECESSED IN NEW WALL - COORDINATE WITH CARRIER TRAYS. EXTEND (E) RECEPTACLE CIRCUITS FED BY OLD PANEL P2B BKRS TO NEW PANEL P2A. FROM NEW PANEL P2A, SPARE 1" IS CONDUITS UP OFF TOP OF PANEL STUBBED INTO ACCESSIBLE CEILING SPACE IN FRONT OF THE PANEL.
(P4)	RELOCATE (E) PANEL P2A TO NEW LOCATION RECESSED IN NEW WALL (PROVIDE NEW COVER FOR FLUSH MOUNTING). RELOCATE (E) PANEL P2B TO NEW LOCATION RECESSED FOR CONFLICT WITH NEW PIPES FEEDING NEW LAVATORY. EXTEND (E) CIRCUITS CURRENTLY BEING FED BY PANEL P2A TO THE NEW PANEL LOCATION (PANEL IS SHIFTING APPROX. 8" TO THE LEFT). FROM NEW PANEL P2A, SPARE 1" IS CONDUITS UP OFF TOP OF PANEL STUBBED INTO ACCESSIBLE CEILING SPACE IN FRONT OF THE PANEL.
(P5)	RELOCATE (E) TIME CLOCK TO NEW LOCATION ABOVE NEW DROPPED CEILING (FIELD VERIFY SPACE AVAILABLE ABOVE NEW DROPPED CEILING). EXTEND (E) CIRCUITS CURRENTLY BEING FED BY TIME CLOCK TO THE NEW LOCATION.
(P6)	INSTALL NEW 3/4 INCH OSB SHEATING FOR MOUNTING NEW ELECTRICAL GEAR.

(P7) INSTALL NEW FIRE ALARM PANEL (FACP) CONCEALED IN NEW WALL, PROVIDE FOUR (4) SPARE 3/4" INCH CONDUITS FROM TOP OF FACP TO FACP. FACP TO BE INSTALLED IN FRONT OF FACP FOR FUTURE USE. NOTE: NEW FIRE ALARM SYSTEM WORK SHALL BE BID AS ALTERNATE DEDUCT ITEM #E1.

(P8) EXTEND CKT FROM OLD REFRIGERATOR RECEPT.

(P9) REMOVE TWO (2) EXISTING EXPOSED NONMETALLIC-SHEATHED CABLES/CIRCUITS (ONE IS PRAISED) FROM TOP OF PANEL, RUN UP TO BOTTOM OF PANEL, REMOVE, INSTALL J-BOX AND REPLACE NM CABLE WITH NEW WIRE. INSTALLED IN FLEXIBLE METAL CONDUIT PER SPECS.

(P10) NEW FEEDER (3-#3 + 1-#8 GRD IN 1-1/4") FOR (E) ELEC. FURNACE FUR-1 FROM NEW PANEL P2B.

COORDINATE LOCATION OF NEW GENERATOR WITH OWNER PER TO ROUGH-IN, VERIFY PROPERTY LINE BOUNDARY LOCATION WITH OWNER'S SURVEY. COORDINATE ANY REQUIRED GRADING WORK, ASPHALT REMOVAL/RESTORATION, LAWN REMOVAL/RESTORATION, ETC. WITH SITE/CIVIL TRADES. CONTACT MISS DCI PRIOR TO ANY BELOW GRADE WORK.

MAKE THE FOLLOWING IMPROVEMENTS TO (E) PANELS TO REPAIR:

(P11) 1) IDENTIFY ALL EXISTING PANEL BKR LOADS AND RE-LABEL PANEL CIRCUIT DIRECTORY accordingly (N.E.C. 40B.4).

(P12) 2) SECURE ALL (E) CONDUITS CONNECTED TO & ALL (E) CABLES WITHIN 18" OF ALL PANELS (N.E.C. 300.11).

(P13) 3) ALL UNUSED OPENINGS IN ALL (E) PANELBOARDS SHALL BE CLOSED WITH NO SEALS PER N.E.C. 110.102(A).

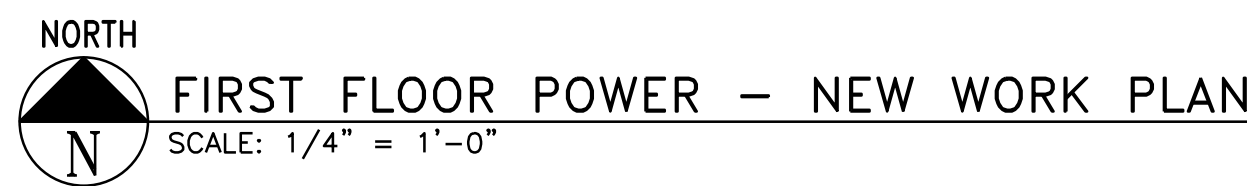
(P14) 4) ALL (E) EXPOSED CABLES NEAR (E) PANELBOARDS WITHIN 18" OF REMOVED CLOSURE SHALL BE INSTALLED WITH NEW RACE TO PROTECT THEM FROM DAMAGE.

	REINSTATE ELECTRICAL DEVICES (I.E. LIGHT SWITCHES, RECEPTACLES, TELEPHONE DEVICES, ETC.) IN (E) BASKS. PROVIDE BOB EXTENSIONS AS REQUIRED TO ACCOMMODATE NEW LAYERS OF DRYWALL. REINSTATE COVER PLATES.
(PH)	BID ELEC WORK FOR NEW ALTERNATE SPLIT LEAD PUMP SYSTEM CU-A & FL-A1/FC-A2 DS DISCREET DUMP #M1.
(PE)	PROVIDE NEW EMERGENCY (EM) POWER COKTS FROM NEW PANEL PEN TO OWNERS' POWER COMMUNICATIONS EQUIPMENT. COORDINATE REQUIREMENTS (I.E. VOLTAGE, AMPS, ETC.) AND LOCATIONS OF EMERGENCY LOADS WITH OWNER PRIOR TO ROUGH-IN.
(PC)	INSTALL NEW GROUND BUS KIT (SIZE TO MATCH PANEL SIZE) IN (E) PANEL AND CONNECT A NEW COPPER GROUND WIRE (SIZED TO N.E.C.) TO EXISTING COP GROUND IN SAME PANEL. (NEW CONDUIT AS PANEL'S EXISTING/NEW FEEDER) FROM NEW MDP'S GROUND BUS.
(PS)	PROVIDE ROUGH-INS FOR NEW/RELOCATED SECURITY SYSTEM DEVICES. COORDINATE WITH OWNER'S SECURITY CONSULTANT/CONTRACTOR PRIOR TO ROUGH-IN.
(PT)	RE-FEED (E) IT ROOM'S TELECOM LOADS FROM (3) COKTS (2-#10 + 1-#10 IN 3/4"). COORDINATE WITH OWNER'S IT/TELECOM CONSULTANT/CONTRACTOR PRIOR TO ROUGH-IN.
(P12)	ROUTE ALL CIRCUITS/CONTROLS TO FROM GENERATOR AND ANTS IN CONDUIT PER SPEC.
	PROTECT GROUND WITH 6" x 8" LONG GALV. STEEL PIPE, BOLLARDS, FILLED WITH CONCRETE, BURIED IN 24" DIAMETER X 4" DEEP CONCRETE FOUNDATION, PAINT SAFETY YELLOW.
	BOLLARDS TO BE INSTALLED TO REQUIRED GENERATOR ACCESS PANELS PRIOR TO INSTALLATION.

E.C. SHALL PROVIDE/INSTALL CONDUIT/BOX/ROUGH-IN'S AND ALL WIRING FOR DOOR ACCESS CONTROL SYSTEMS INCLUDING 120VAC POWER TO THE ACCESS CONTROL UNIT, PROXY (DP) AND ALL LOW VOLTAGE WIRING FROM DOOR CONTROL PANEL/POWER SUPPLY TO ACCESS DEVICES. COORDINATE REQUIREMENTS WITH DOOR ACCESS CONTROL PROVIDER PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF DEVICES WITH OWNER PRIOR TO ROUGH-IN.
 REFER TO LIST OF ARCHITECTURAL ALTERNATES FOR WORK ON CERTAIN DOORS TO BE BID AS ALTERNATE DEDUCT ITEMS.

FIRE ALARM SYSTEM SHALL BE INTERCONNECTED WITH THE DOOR ACCESS CONTROL TO RELEASE DOOR STRIKE UPON ALARM OF THE FIRE ALARM SYSTEM. COORDINATE WITH DOOR ACCESS CONTROL SUPPLIER AND FIRE ALARM SUBCONTRACTOR.

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXIST OF WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS (I.E. CONDUIT, WIRE, PULL BOXES, FIXTURES, ETC.) REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS WITH LOCATIONS/HEIGHTS OF COUNTERTOPS, SINKS, FURNITURE, CABINETS, ETC. WITH ARCHITECTURAL ELEVATIONS AND OTHER TRACES.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ELECTRICAL WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY ALL MECHANICAL AND ELECTRICAL CLEARANCES PRIOR TO INSTALLATION OF ANY NEW ELECTRICAL EQUIPMENT, WIRING, ETC. SHALL NOT INTERFERE WITH MECHANICAL EQUIPMENT CLEARANCE SPACES.
4. ALL CIRCUITS FOR POWER, LIGHTING, ETC. SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. ALL FIBRILES SHALL BE CONCEALED IN WALLS, INCLUDING (E) WALLS. SURFACE MOUNTED RACEWAY SHALL NOT BE USED, UNLESS NOTED OTHERWISE, OR UNLESS ABSOLUTELY NECESSARY. APPROVAL FROM ARCHITECT/ENGINEER MUST BE OBTAINED PRIOR TO USING SURFACE MOUNTED RACEWAY.
5. EACH SUBCONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING ANY ALL CEILING TILES AND/OR GRID ASSOCIATED WITH THEIR WORK. THE RESPONSIBLE CONTRACTOR SHALL REPLACE/REPAIR ALL CEILING TILES AND/OR GRID DAMAGED DURING THE CONSTRUCTION WITH NEW CEILING TILES.
6. UNLESS OTHERWISE NOTED, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL NEW PENETRATIONS THROUGH ALL WALLS WITH FIRE CAULK IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS.
7. UNLESS OTHERWISE NOTED, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.
8. PENETRATIONS THROUGH EXISTING STAIR ENCLOSURES ARE PROHIBITED.
9. CONTRACTOR SHALL SUPPORT ANY (E) NONMETALLIC SHEATHED CABLES (I.E. ROMEX) THAT ARE NOT ADEQUATELY SUPPORTED IN ACCORDANCE WITH N.E.C. THIS APPLIES TO THE ENTIRE BUILDING (INCLUDING ABOVE EXISTING ACCESSIBLE DROPPED CEILINGS). CONTRACTOR SHALL LEAVE ALL (NEW OR EXISTING) ELECTRICAL WIRING AND/OR EQUIPMENT TO BE INSPECTED BY THE OWNER'S ELECTRICAL INSPECTOR. NOTE THAT ROMEX WILL NOT BE ALLOWED FOR ANY NEW CIRCUITS.



FIRST FLOOR POWER - NEW WORK PLAN

PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

175-11

E4.1

el
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KEYED ELECTRICAL POWER CONSTRUCTION NOTES:
REFER TO DRAWING E4.1 FOR KEYED NOTES.

GENERAL ELECTRICAL POWER NOTES:
REFER TO DRAWING E4.1 FOR GENERAL ELECTRICAL POWER NOTES.

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NORTH
SECOND FLOOR POWER - NEW WORK PLAN
SCALE: 1/4" = 1'-0"

SHEET	DATE	PROJECT NO.	PROJECT TITLE	
			DRAWING TITLE	
E4.2	4/2/2012	175-11	SECOND FLOOR POWER - NEW WORK PLAN	
			PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	

KEYED ELECTRICAL POWER CONSTRUCTION NOTES:
REFER TO DRAWING E4.1 FOR KEYED NOTES.

GENERAL ELECTRICAL POWER NOTES:
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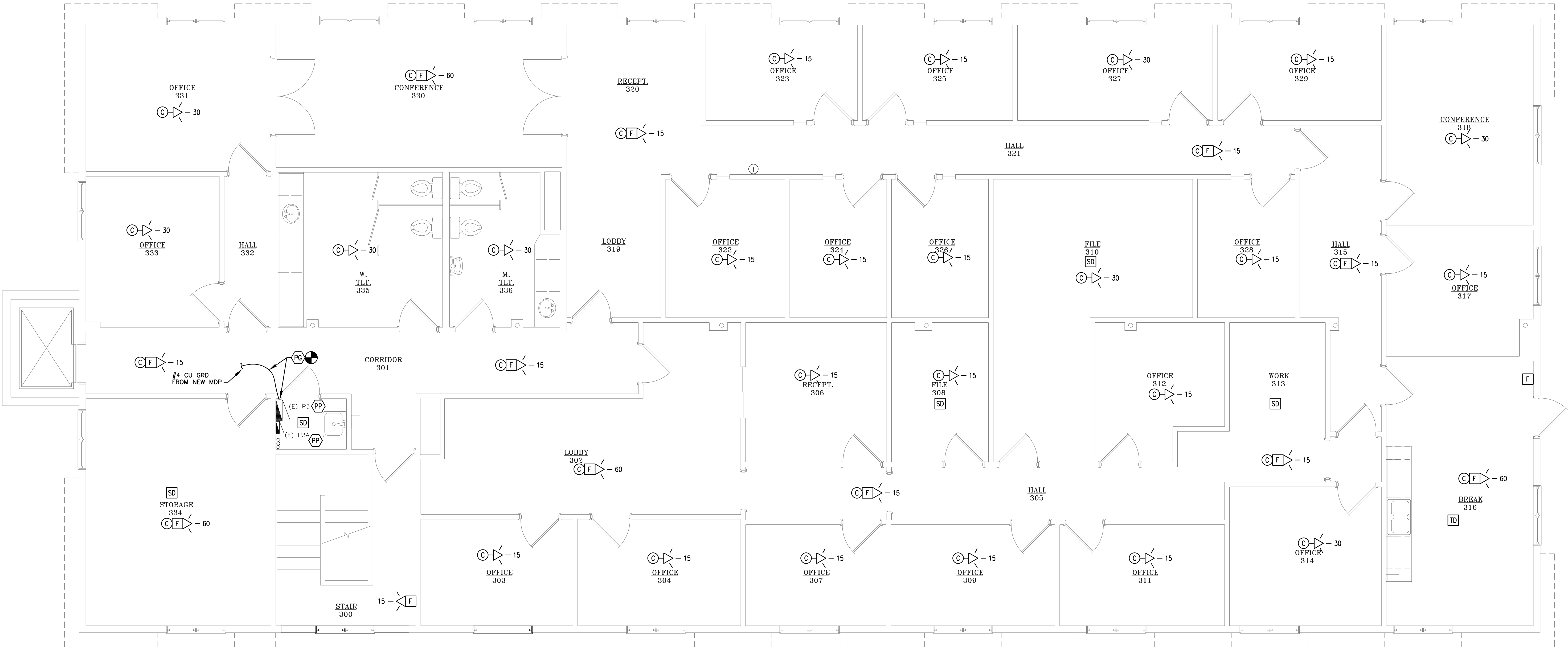
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THIRD FLOOR POWER – NEW WORK PLAN

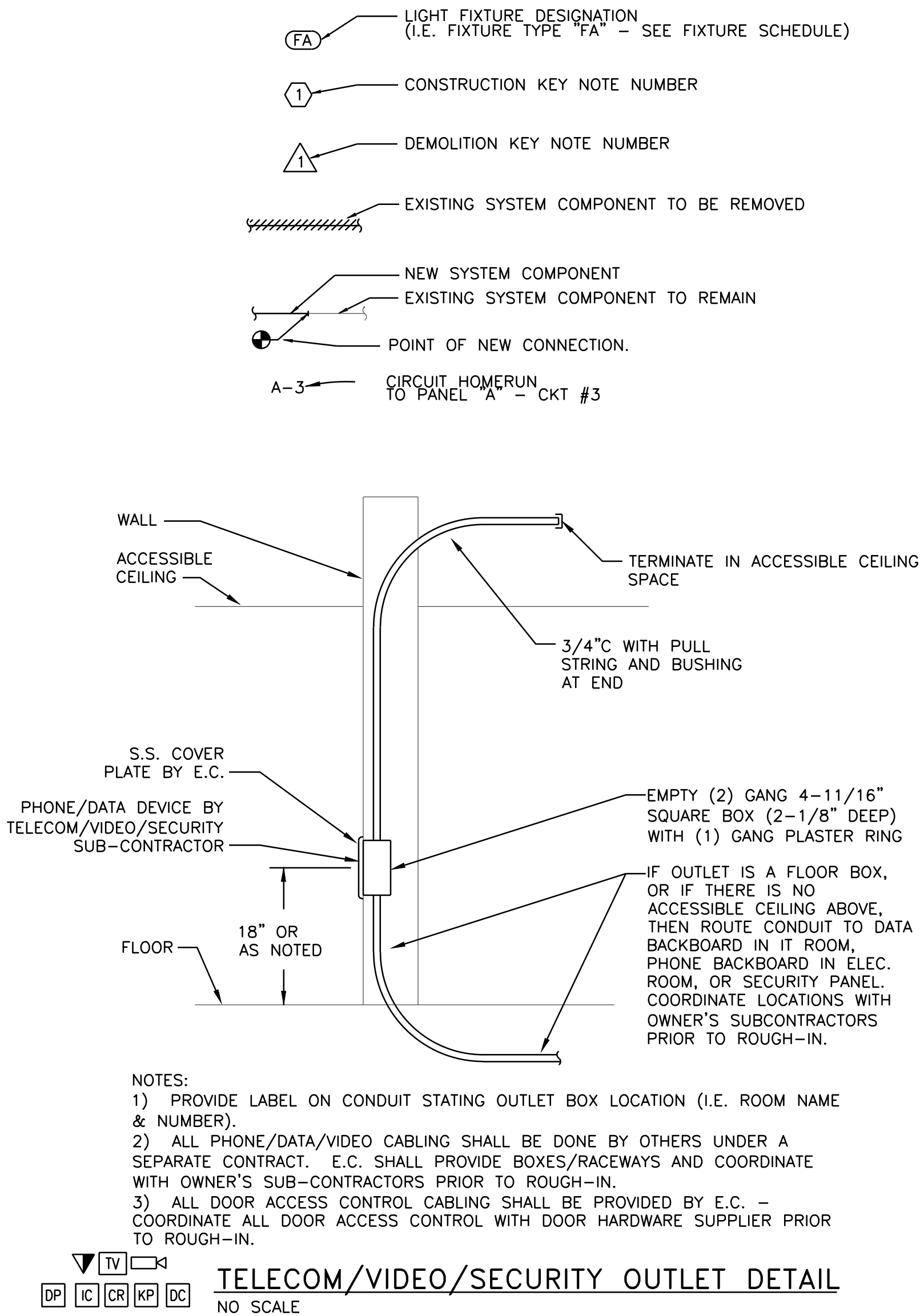
SCALE: 1/4" = 1'-0"

SHEET	DATE	PROJECT NO.	PROJECT TITLE	DRAWING TITLE
E4.3	4/2/2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR: LTBB ODAWA INDIANS PETOSKEY, MICHIGAN	THIRD FLOOR POWER - NEW WORK PLAN

ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	LP	LIGHTING PANEL
AIC	AMPS INTERRUPTING CAPACITY	LC	LIGHTING CONTROLLER
BKR	BREAKER	M.C.	MECHANICAL CONTRACTOR
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CB	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MDP	MAIN DISTRIBUTION PANEL
CORD.	COORDINATION	MLO	MAIN LUGS ONLY
CP	CIRCULATION PUMP	MTD	MOUNTED
CU	CONDENSING UNIT	MTR	MOTOR
DISC	DISCONNECT	NC	NORMALLY CLOSED
DEMO	DEMOLITION	N.E.C.	NATIONAL ELECTRIC CODE
DP	DISTRIBUTION PANEL	NF	NON-FUSIBLE
DWG	DRAWING	NIC	NOT IN CONTRACT
EBU	EMERGENCY BATTERY UNIT	NL	NIGHT LIGHT
E.C.	ELECTRICAL CONTRACTOR	NO	NORMALLY OPEN
EF	EXHAUST FAN	NTS	NOT TO SCALE
EHD	ELECTRIC HAND DRYER	P-A	PANEL "A"
EUH	ELECTRIC UNIT HEATER	PB	PUSHBUTTON STATION
EWC	ELECTRIC WATER COOLER	P.C.	PLUMBING CONTRACTOR
EWB	ELECTRIC WALL HEATER	RECEPT.	RECEPTACLE
(E)	EXISTING	(R)	RELOCATED
EM	EMERGENCY LIGHT	RTU	ROOF TOP HVAC UNIT
FLA	FULL LOAD AMPS	SD	SMOKE DETECTOR
FC	FAN COIL	SPEC	SPECIFICATION
(F)	FUTURE	S.S.	STAINLESS STEEL
FU	FUSE	SW	SWITCH
GRD	GROUND FAULT INTERRUPTER	SWGR	SWITCHGEAR
GRS	GALVANIZED RIGID STEEL	TB	TERMINAL BOX
HOA	HAND-OFF-AUTO	TELCOM	TELECOMMUNICATIONS
HP	HORSEPOWER	TTB	TELEPHONE TERMINAL BACKBOARD
HZ	HERTZ	TYP	TYPICAL
IG	ISOLATED GROUND	UH	UNIT HEATER
JB	JUNCTION BOX	UON	UNLESS OTHERWISE NOTED
KW	KILOWATT	U/G	UNDERGROUND (BELOW GRADE)
KWH	KILOWATT - HOURS	WP	WEATHERPROOF
KVA	KILO VOLT-AMPERES	WG	WIRE GUARD
		XFMR	TRANSFORMER

METHODS OF NOTATION



ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
FA	FIXTURE TYPE
	RECESSED OR SURFACE MOUNTED FLUORESCENT LIGHTING FIXTURE
	RECESSED OR SURFACE MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	SURFACE OR PENDANT MOUNTED FLUORESCENT LIGHTING FIXTURE
	SURFACE OR PENDANT MOUNTED FLUORESCENT EMERGENCY LIGHTING FIXTURE
	WALL MOUNTED FLUORESCENT LIGHTING FIXTURE
	DOWNLIGHT LIGHTING FIXTURE
	DOWNLIGHT EMERGENCY LIGHTING FIXTURE
	WALLWASH OR DIRECTIONAL DOWNLIGHT
	WALL MOUNTED LIGHTING FIXTURE
	WALL SCENCE
	TRACK LIGHTING TRACK
	TRACK LIGHTING FIXTURE
	SMOKE DETECTOR SPECIFICATION
	OUTDOOR WALL MOUNTED LIGHTING FIXTURE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTING FIXTURE WITH EMERGENCY EGRESS LIGHTING AND BATTERY
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE - WALL MOUNTED
S	SINGLE POLE TOGGLE SWITCH
S2	TWO POLE TOGGLE SWITCH
S3	3 WAY TOGGLE SWITCH
S4	4 WAY TOGGLE SWITCH
D	DIMMER SWITCH
D3	3 WAY DIMMER SWITCH
Sp	PILOT SWITCH
S	DUAL SWITCHING FOR FLUORESCENT LIGHT FIXTURES
S3S3	3 WAY DUAL SWITCH FOR FLUORESCENT LIGHT FIXTURES
So	OCCUPANCY SENSOR WALL SWITCH
SL	LOW VOLTAGE SWITCH
Sm	HORSE POWER RATED SWITCH
So	DIGITAL SWITCH
Sr	FAN REVERSE SWITCH
Sf	FAN SPEED CONTROL SWITCH
L/C	LIGHTING CONTROLLER/CONTRACTOR
C	CONTACTOR
P	PHOTOELECTRIC CONTROLLER
OS	CEILING OR WALL MOUNTED OCCUPANCY SENSOR
OP	OCCUPANCY SENSOR POWER PACK
EPC	EMERGENCY POWER TRANSFER CONTROLLER (LVS MODEL "EPC-A")
T/C	TIME CLOCK

STANDARD MOUNTING HEIGHTS

CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS, TELE/DATA AND COMMUNICATIONS OUTLETS NOT OTHERWISE SPECIFIED	18" AFF TO CENTER OF BOX IN CMU WALLS - 16" AFF TO BOTTOM OF BOX
CONVENIENCE AND SPECIAL PURPOSE RECEPTACLE OUTLETS ABOVE COUNTERS	6" ABOVE COUNTER TO CENTER OF BOX OR AS REQUIRED TO ACCOMMODATE COUNTERS (REFER TO ARCHITECTURAL ELEVATIONS)
LIGHT SWITCHES, MOTOR CONTROL DEVICES AND FIRE ALARM PULL STATIONS NOT OTHERWISE SPECIFIED	50" AFF TO CENTER OF BOX IN CMU WALLS - 48" AFF TO TOP OF BOX
T-STATS, TEMP. SENSORS, CO2 SENSORS	50" AFF TO CENTER OF BOX IN CMU WALLS - 48" AFF TO TOP OF BOX
GFI RECEPTACLES IN TOILET ROOMS AND JANITOR CLOSETS NOT OTHERWISE SPECIFIED	48" AFF TO TOP OF BOX
LIGHTING AND RECEPTACLE BRANCH CIRCUIT PANELBOARDS AND LIGHTING CONTROLLERS	6'-6" AFF TO TOP OF ENCLOSURE

SYMBOL	DESCRIPTION
	SINGLE PHASE MOTOR
	THREE PHASE MOTOR
	MANUAL MOTOR STARTER
	MANUAL MOTOR STARTER WITH PILOT LIGHT
	COMBINATION MOTOR STARTER WITH DISCONNECT SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
Sm	HORSE POWER RATED SWITCH
	PUSH BUTTON STATION
	JUNCTION BOX
	HARD WIRE POWER CONNECTION
	HARD WIRE CONNECTION AT FLOOR BOX
	DATA OUTLET
	DATA OUTLET MTD 8" ABOVE COUNTERTOP
	DATA OUTLET - IN FLOOR BOX
	COMBINATION TELE/DATA OUTLET
	COMBINATION TELE/DATA OUTLET MOUNTED 8" ABOVE COUNTER TOP (UNLESS NOTED OTHERWISE)
	COMBINATION TELE/DATA OUTLET - IN FLOOR BOX 2 = WITH (2) TELE/DATA OUTLETS 4 = WITH (4) TELE/DATA OUTLETS
	COMBINATION TELE/DATA OUTLET 8" ABOVE COUNTERTOP
	COMBINATION TELE/DATA OUTLET - FLOOR MOUNTED A= WITH (1) TELE/DATA OUTLET B= WITH (2) TELE/DATA OUTLETS
	TELEPHONE OUTLET
	TELEPHONE OUTLET MTD 8" ABOVE COUNTERTOP
	TELEPHONE OUTLET - IN FLOOR BOX
	DATA OR TELE OUTLET - WALL MOUNTED @ 48"
	TELECOMMUNICATIONS BACKBOARD
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED AT 48" ABOVE FLOOR (UNLESS NOTED OTHERWISE) (SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GFI RECEPTACLES)
	QUAD RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP (UNLESS NOTED OTHERWISE) OR AS REQUIRED TO ACCOMMODATE COUNTERS (REFER TO ARCHITECTURAL ELEVATIONS) (SIMILAR FOR ISOLATED GROUND, EMERGENCY AND GFI RECEPTACLES)
	DUPLEX RECEPTACLE-GROUND FAULT INTERRUPTER
	DUPLEX RECEPTACLE-EMERGENCY POWER
	FLOOR MOUNTED RECEPTACLE (FLUSH MOUNT) F1= WITH (1) DUPLEX RECEPTACLE F2= WITH (2) DUPLEX RECEPTACLES
	FLOOR MOUNTED RECEPTACLE (PEDESTAL MOUNT) P1= WITH (1) DUPLEX RECEPTACLE P2= WITH (2) DUPLEX RECEPTACLES
	SPECIAL RECEPTACLE-NEMA CONFIGURATION AS NOTED

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	SWITCH
	AUTOMATIC OR MANUAL TRANSFER SWITCH
	FUSE
	TRANSFORMER
	NODE
	GROUND
	CIRCUIT HOMERUN
	LIGHTING PANEL (LP)
	RECEPTACLE PANEL (RP)
	DISTRIBUTION PANEL
	TRANSFORMER
	UTILITY METER
	UTILITY CT CABINET
	MANUAL FIRE ALARM STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	REMOTE TEST STATION (FOR DUCT DETECTOR)
	THERMAL DETECTOR
	FIRE ALARM STROBE-WALL MOUNT (xx CANDELA)
	FIRE ALARM STROBE-CEILING MOUNT (xx CANDELA)
	FIRE ALARM HORN-STROBE-WALL MOUNT (xx CANDELA)
	FIRE ALARM HORN-STROBE-CEILING MOUNT (xx CANDELA)
	FIRE ALARM SPEAKER-STROBE-WALL MOUNT (xx CANDELA)
	FIRE ALARM SPEAKER-STROBE-CEILING MOUNT (xx CANDELA)
	TAMPER SWITCH
	FLOW SWITCH
	MAGNETIC DOOR RELEASE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	AREA OF RESCUE ANNUNCIATOR
	AREA OF RESCUE REMOTE CALL STATION
	SPEAKER
	SPEAKER - WALL MOUNTED
	MICROPHONE
	TELEVISION OUTLET
	SECURITY CAMERA
	MOTION DETECTOR
	KEY SWITCH
	DOOR CONTACT
	DOOR STRIKE
	KEY PAD
	CARD READER
	INTERCOM OUTLET
	DOOR CONTROL PANEL/POWER SUPPLY
	DOOR PUSH PAD

ELECTRICAL DRAWING INDEX

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E1.2 SECOND FLOOR LIGHTING - DEMOLITION PLAN
E2.1 FIRST FLOOR POWER - DEMOLITION PLAN
E2.2 SECOND FLOOR POWER - DEMOLITION PLAN
E3.1 FIRST FLOOR LIGHTING - NEW WORK PLAN
E3.2 SECOND FLOOR LIGHTING - NEW WORK PLAN
E4.1 FIRST FLOOR POWER - NEW WORK PLAN
E4.2 SECOND FLOOR POWER - NEW WORK PLAN
E4.3 THIRD FLOOR POWER - NEW WORK PLAN
E5.1 ELECTRICAL DETAILS
E5.2 ELECTRICAL DETAILS
E5.3 ELECTRICAL DETAILS

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DRAWING TITLE

ELECTRICAL DETAILS

PROJECT TITLE

PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:
LTBB ODAWA INDIANS
PETOSKEY, MICHIGAN

PROJECT NO.

175-11

DATE

4/2/2012

SHEET

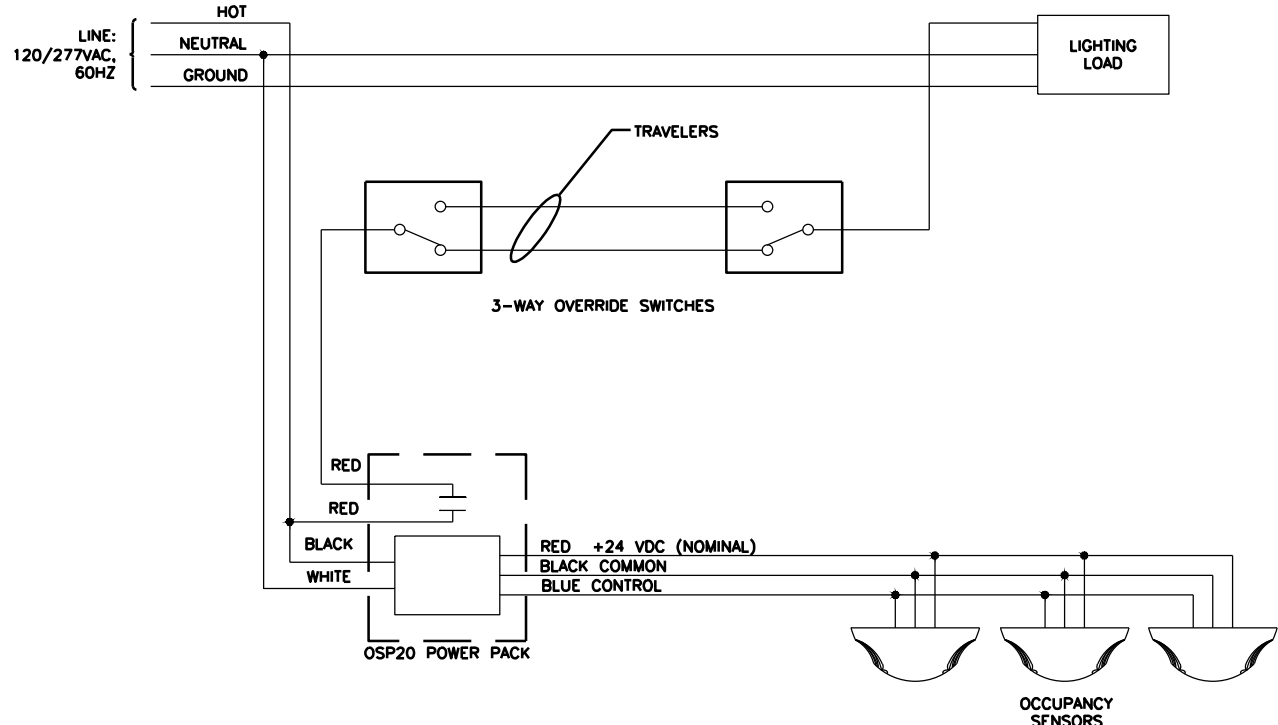
E5.1

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURERS	LAMPS	VOLTS/WATTS	REMARKS
(F1)	2'x4'x3-3/8" DEEP, RECESSED LAY-IN FLUORESCENT FIXTURE WITH PROTECTED ACRYLIC LENS.	1. METALUX "ACCORD" SERIES 2AC-232-UNV-18841-ERB1 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE	(2)-F32WT8/RS	120V / 58W	
(F1E)	FIXTURE SHALL BE SAME AS "F1" EXCEPT IT SHALL HAVE AN EMERGENCY BATTERY BALLAST (EBB). EMERGENCY BALLAST SHALL PROVIDE MINIMUM OF 1400 LUMENS (700 LUMENS FOR EACH LAMP) FOR 2 LAMPS IN PARALLEL FOR 90 MINUTES - IOTA MODEL I-232 OR EQUAL.	1. METALUX "ACCORD" SERIES 2AC-232-UNV-18841-ERB1 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE	(2)-F32WT8/RS	120V / 58W	
(F2)	2'x4'x3-1/4" DEEP, RECESSED LAY-IN FLUORESCENT FIXTURE WITH A12 0.125 ACRYLIC PRISMATIC DIFFUSER, FLUSH STEEL WHITE FRAME.	1. METALUX "ZOCB" SERIES 2OCB-332A125-120V-ERB1 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE.	(3)-F32WT8/RS	120V / 91W	
(F2E)	FIXTURE SHALL BE SAME AS "F2" EXCEPT IT SHALL HAVE AN EMERGENCY BATTERY BALLAST (EBB). EMERGENCY BALLAST SHALL PROVIDE MINIMUM OF 1400 LUMENS (700 LUMENS FOR EACH LAMP) FOR 2 LAMPS IN PARALLEL FOR 90 MINUTES - IOTA MODEL I-232 OR EQUAL.	1. METALUX "ZOCB" SERIES 2OCB-332A125-120V-ERB1 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE.	(3)-F32WT8/RS	120V / 91W	
(F4)	2' LONG X 5-1/2" HIGH X 7-1/2" DEEP, FLUORESCENT WALL BRACKET FIXTURE WITH UP/DOWN LIGHT & AN OPAL WHITE ACRYLIC REFRACTOR	1. METALUX "BAU" SERIES BAU-217-UNV-ERB1 2. ENGINEER APPROVED EQUAL BY LITHONIA OR COLUMBIA	(2)-F17T8/RS	120V / 34W	
(F5)	2'x4'x1-3/4" DEEP, ULTRA SHALLOW RECESSED FLUORESCENT FIXTURE W/ LINDA PRISMATIC TROFFER LENS.	1. CORELITE "R1" SERIES R1-WL-2N5-1-C-UNV-24-TI 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE.	(2)-F28WT5/RS	120V / 58W	CONTRACTOR SHALL VERIFY (E) GRID AND/OR NEW GRID SIZE PRIOR TO ORDERING FOR PROPER MOUNTING.
(F5E)	FIXTURE SHALL BE SAME AS "F5" EXCEPT IT SHALL HAVE AN INTEGRAL EMERGENCY BATTERY UNIT (EBU). EMERGENCY BATTERY SHALL PROVIDE MINIMUM OF 1,300 LUMENS FOR 90 MINUTES - IOTA MODEL JSL-540 OR EQUAL.				
(F6)	SURFACE MOUNTED WRAP WITH ACRYLIC LENS.	1. METALUX "WS" SERIES WS-232A-UNV-ERB1 2. ENGINEER APPROVED EQUAL BY COLUMBIA, LITHONIA, OR DAY-BRITE.	(2)-F32WT8/RS	120V / 64W	
(EX)	LED EXIT LIGHT; POLYCARBONATE HOUSING WITH WHITE FACE PLATE WITH UNIVERSAL DIRECTIONAL ARROWS, RED LED LAMPS AND HIGH IMPACT POLYCARBONATE LENS; FIXTURE SHALL BE DUAL 120/277V AC/EM OPERATION, UL 924 CODE COMPLIANCE. SEALED NICKEL CADMIUM BATTERY - 24 HR RECHARGE.	1. SURE-LITES LPX SERIES - LPX7-SD 2. ENGINEER APPROVED EQUAL BY LITHONIA OR PRESCOLITE	LED	120V / 1W	ARROWS AND FACES SHALL BE AS INDICATED ON DRAWINGS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR SINGLE OR DOUBLE SIDE AS REQUIRED BY CODE. NOTE: EX LIGHTS IN BAR SHALL BE BLACK COLOR (COORD. WITH OWNER PRIOR TO ORDER)
(EXH)	LED EXIT LIGHT WITH HIGH POWER BATTERY FOR EMERGENCY REMOTE CAPACITY. POLYCARBONATE HOUSING WITH WHITE FACE PLATE, WITH UNIVERSAL DIRECTIONAL ARROWS, RED LED LAMPS AND HIGH IMPACT POLYCARBONATE LENS; SEALED MAINTENANCE FREE LEAD CALCIUM BATTERY; 120/277 VOLT AC/EM OPERATION.	1. SURE-LITES "LPXH" SERIES LPXH7-0-R-WH-SD 2. ENGINEER APPROVED EQUAL	LED	120V / 5W	ARROWS AND FACES SHALL BE AS INDICATED ON DRAWINGS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR SINGLE OR DOUBLE SIDE AS REQUIRED BY CODE.
(EXH)	EXIT/EMERGENCY LIGHT COMBINATION WITH HIGH POWER BATTERY FOR EMERGENCY REMOTE CAPACITY. LED EXIT LIGHT, POLYCARBONATE HOUSING WITH WHITE FACE PLATE, EMERGENCY LIGHTING FIXTURE WITH TWO 6 VOLT 5.4 WATT FULLY ADJUSTABLE CYLINDER TYPE LAMP HEADS; SEALED MAINTENANCE FREE LEAD CALCIUM BATTERY; AUTOMATIC CHARGER AND TRANSFER CIRCUIT; DUAL 120/277 VOLT AC/EM OPERATION.	1. SURE-LITES "LPXH" SERIES LPXH7-0-R-WH-DH-SD 2. ENGINEER APPROVED EQUAL	(2) - 5.4W INCANDESCENT EMERGENCY LAMPS / LED EXIT LAMPS	120V / 5W	ARROWS AND FACES SHALL BE AS INDICATED ON DRAWINGS. PROVIDE MOUNTING HARDWARE AS REQUIRED FOR SINGLE OR DOUBLE SIDE AS REQUIRED BY CODE.
(EM)	EMERGENCY LIGHTING UNIT. WALL OR CEILING MOUNTED LIGHTING WITH TWO 12 WATT FULLY ADJUSTABLE MR16 LAMP HEADS. SEALED MAINTENANCE FREE NICKEL CADMIUM BATTERY.	1. SURE-LITES "CC" SERIES CCB007 2. ENGINEER APPROVED EQUAL	(2) - 12W MR16 LAMPS	120V / 4W	
(EB1)	REMOTE OUTDOOR EMERGENCY LIGHTING; WALL MOUNTED WEATHERPROOF FIXTURE WITH ONE HALOGEN SEALED BEAM LAMP - 8 WATTS AT 6 VOLTS. COORDINATE AVAILABLE COLOR (WHITE, GREY, BLACK) WITH ARCHITECT PRIOR TO ORDERING.	1. SURE-LITES "6TBWxx" 6TBWGY 2. ENGINEER APPROVED EQUAL BY LITHONIA, HUBBLE	(1) - 8W HALOGEN SEALED LAMP	6V / 8W	WIRE TO BATTERY IN HIGH POWER CAPACITY EXIT SIGN OR EMERGENCY REMOTE LOCATED INSIDE BUILDING

NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL CEILING SPACE HEIGHT LIMITATIONS PRIOR TO ORDERING FIXTURES.

OCCUPANCY SENSOR NOTES:

- ALL SENSOR LOCATIONS ARE APPROXIMATE-REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
- ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS: A) ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED. B) DEPENDING ON THE TYPE OF SENSOR, UP TO THREE SENSORS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK. C) IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK. NOTE: ALL POWER PACKS SHALL COME WITH HVAC RELAY.
- COORDINATE ALL SENSOR COLORS WITH ARCHITECT PRIOR TO ORDERING.



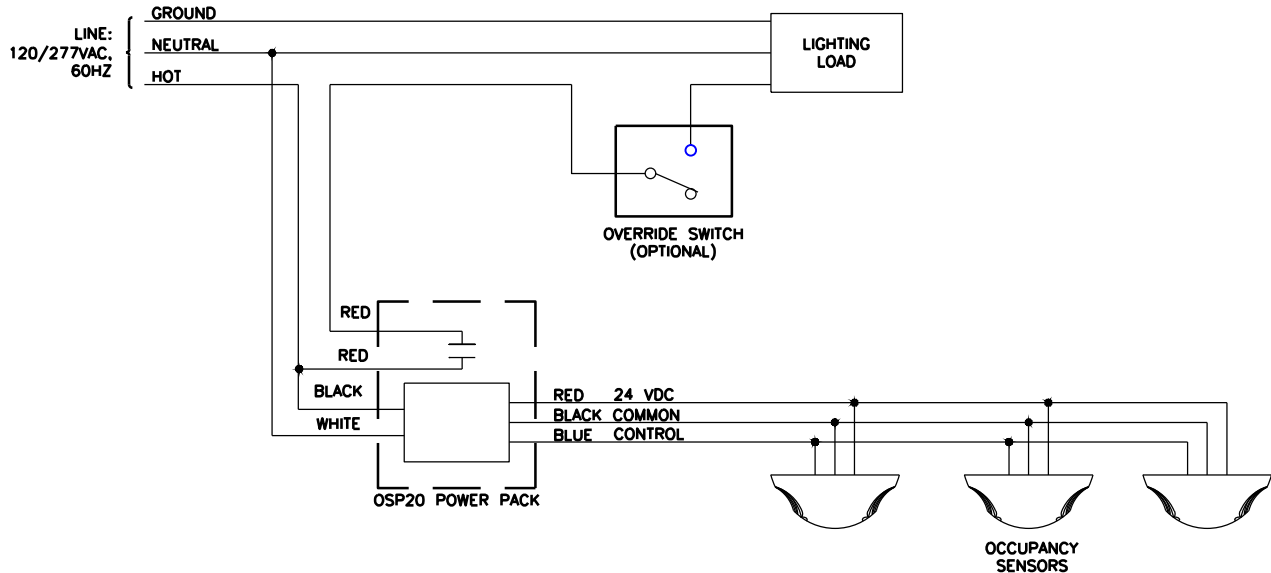
OCCUPANCY SENSOR DETAIL WITH 3-WAY SWITCHES

NO SCALE

OCCUPANCY SENSOR SYMBOL LEGEND		
SYMBOL	MODEL #	DESCRIPTION
	ODS15-ID	WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR WITH ADAPTABILITY
	OSSMT-GDW	WALL MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR
	OSC05-MO	CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR (500 SQ. FT)
	OSC05-UO	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR (500 SQ. FT)
	OSC10-MO	CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR (1000 SQ. FT)
	OSC10-UO	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR (1000 SQ. FT)
	OSC20-MO	CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR (2000 SQ. FT)
	OSC20-UO	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR (2000 SQ. FT)
	OSW12-MO	MULTI-TECHNOLOGY WALL/CORNER OCCUPANCY SENSOR
	OSHWB-IOW	HIGH BAY WALL MOUNTED PIR OCCUPANCY SENSOR
	OSWW-IOW	WIDE VIEW WALL MOUNTED PIR OCCUPANCY SENSOR
	OSP20-RDO	POWER PACK (WITH HVAC RELAY)
	OSA20-RDO	ADD-A-RELAY POWER PACK

NOTES:

- ALL OCCUPANCY SENSOR MODEL NUMBERS ARE LEVITON. WAIT-STOPPER AND COPPER MAY BE BID AS EQUAL.
- COORDINATE ALL SENSOR COLORS WITH ARCHITECT PRIOR TO ORDERING.



OCCUPANCY SENSOR DETAIL WITH SINGLE SWITCH

NO SCALE

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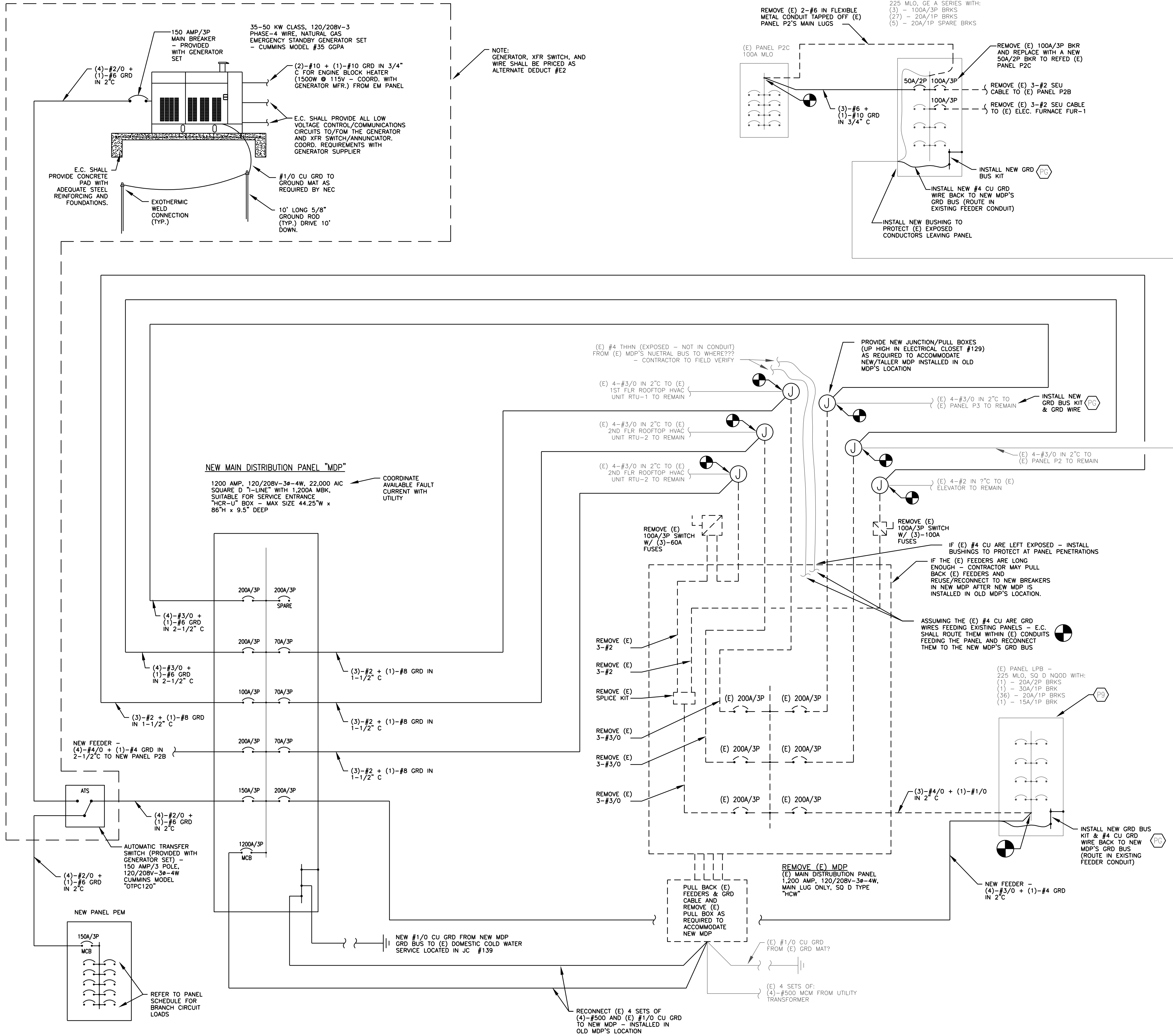
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SHEET	DATE	PROJECT NO.	DRAWING TITLE	
			PROJECT TITLE	ELECTRICAL DETAILS
E5.2	4/2/2012	175-11	PROPOSED 911 SPRING STREET OFFICE BUILDING REMODELING FOR:	
			LTBB ODAWA INDIANS	
			PETOSKEY, MICHIGAN	

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REFER TO DRAWINGS E2.1, E2.2, E4.1 AND E4.2 FOR KEYED CONSTRUCTION NOTES

ELECTRICAL ONE- LINE DIAGRAM

NO SCALE

PANEL	P2B	225A	A	MLO	BUSSING SIZE	225A	FED FROM	MDP
# OF POLES	42	VOLTS	208/120	NEUTRAL BUS	225A	MOUNTING	RECESSED	
PHASE	3	GROUND BUS?	YES	TVSS?	NO	AIC RMS AMPS	14,000	
HERTZ	60	ISOLATED GRD?	NO					
LOCATION	COURT CLERK 205	REMARKS						
CIRCUIT	BREAKER	DESCRIPTION	A	B	C			
1	100A	(E) ELEC. FURNACE FUR-1	8000	8000	8000			
3								
5	3P							
7	20A	(E) RECEPT. CKT.	1400					
9	20A	(E) RECEPT. CKT.		1400				
11	20A	(E) RECEPT. CKT.			1400			
13	20A	(E) RECEPT. CKT.	1400					
15	20A	(E) RECEPT. CKT.		1400				
17	20A	(E) RECEPT. CKT.			1400			
19	20A	SPARE	X					
21	20A	SPARE		X				
23	20A	SPARE			X			
25	-		-					
27	-		-					
29	-				-			
31	-							
33	-							
35	-							
37	-							
39	-							
41	-							
2	30A	RELOCATED (E) AIR CONDITIONER ACC-1	2800					
4				2800				
6	3P				2800			
8	20A	NEW COURT DUCTLESS SPLIT (CU-A & FC-1/FC-2)	1600					
10	2P			1600				
12	20A	ELECTRIC HAND DRYER (GFCI BREAKER)			1500			
14	20A	ELECTRIC HAND DRYER (GFCI BREAKER)	1500					
16	20A	ELECTRIC HAND DRYER (GFCI BREAKER)		1500				
18	20A	ELECTRIC HAND DRYER (GFCI BREAKER)			1500			
20	20A	ELECTRIC HAND DRYER (GFCI BREAKER)	1500					
22	20A	DOOR ACCESS CONTROL POWER		200				
24	20A	SPARE			X			
26	-		-					
28	-				-			
30	-							
32	-							
34	-							
36	-							
38	-							
40	-							
42	-							
KVA	49	CONNECTED AMPS	137	PHASE WATTS	17400	16200	15800	

- NOTES:
1. PANEL SHALL BE SQUARE D NO TYPE.
2. PROVIDE 5 SPARE 1" CONDUITS OFF TOP OF PANEL STUBBED INTO ACCESSIBLE CEILING SPACE IN FRONT OF PANEL.
3. G = BREAKERS FOR ELECTRICAL HAND DRYERS SHALL BE GFCI TYPE.

PANEL	PEM	150A	A	MBK	BUSSING SIZE	225A	FED FROM	ATS
# OF POLES	30	VOLTS	208/120	NEUTRAL BUS	225A	MOUNTING	SURFACE	
PHASE	3	GROUND BUS?	YES	TVSS?	NO	AIC RMS AMPS	14,000	
HERTZ	60	ISOLATED GRD?	NO					
LOCATION	ELEC. CLOSET 120	REMARKS						
CIRCUIT	BREAKER	DESCRIPTION	A	B	C			
1	30A	(R) POLICE EM LOAD (VERIFY W/ OWNER)	2500					
3				2500				
5	30A	(R) POLICE EM LOAD (VERIFY W/ OWNER)			2500			
7	30A	(R) POLICE EM LOAD (VERIFY W/ OWNER)	2500					
9	20A	(R) POLICE EM LOAD (VERIFY W/ OWNER)		1500				
11	20A	(R) POLICE EM LOAD (VERIFY W/ OWNER)			1500			
13	20A	FIRE ALARM SYSTEM (LOCKABLE BREAKER)	100					
15	20A	GENERATOR ENGINE BLOCK HEATER		1500				
17	-	SPACE			-			
19	-	SPACE	-		-			
21	-	SPACE		-	-			
23	-	SPACE	-		-			
25	-	SPACE	-		-			
27	-	SPACE		-	-			
29	-	SPACE	-		-			
2	20A	EXISTING IT ROOM LOADS (COORD. W/ OWNER)	1500					
4	20A	EXISTING IT ROOM LOADS (COORD. W/ OWNER)		1500				
6	20A	EXISTING IT ROOM LOADS (COORD. W/ OWNER)			1500			
8	20A	SPARE	0					
10	20A	SPARE		0				
12	20A	SPARE			0			
14	-	SPACE	-		-			
16	-	SPACE		-	-			
18	-	SPACE	-		-			
20	-	SPACE		-	-			
22	-	SPACE	-		-			
24	-	SPACE		-	-			
26	-	SPACE	-		-			
28	-	SPACE		-	-			
30	-	SPACE	-		-			
KVA	19	CONNECTED AMPS	53	PHASE WATTS	6600	7000	5500	

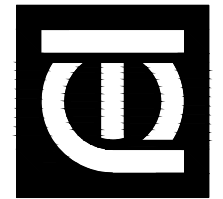
- NOTES:
1. PANEL SHALL BE SQUARE D NO TYPE.

JLK Engineering
Project Number:
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ELECTRICAL DETAILS

DRAWING TITLE

PROJECT TITLE

PROJECT NO.

DATE

SHEET

175-11

E5.3